ROTM

REPS ON THE MOVE

SYSTEM DOCUMENTATION | DELIVERABLE 6

Content & Purpose:

This document's purpose is to reconcile all system documentation done so far. It contains a complete validation, CRUD Matrix, conversion plan and the sign off by team members and client.

Team names from photo (left to right):

Sampie Jonker, John Loxton, Xanderie Jorna, Brett Felton, Chad Fox

Group Information:

John Loxton (Team Leader)	14263123	johnglox@gmail.com	073 012 3733
Chad Fox	15185550	u15185550@tuks.co.za	084 297 4847
Brett Felton	15057471	bmfelton@live.com	071 553 5917
Sampie Jonker	14053072	u14053072@tuks.co.za	074 079 0691
Xanderie Jorna	16248971	u16248971@tuks.co.za	083 602 7080

GROUP 12

Table of Contents

1 Introduction of the overall deliverable

In this deliverable the Ardortech team continues with development of the Reps On The Move system by consolidation all previous deliverables' documentation. The purpose of this deliverable is to reconcile all system documentation done so far.

This document contains the system requirements, system documentation, validation, a CRUD matrix, a conversion plan, project related issues, an updated complexity matrix and the sign off by the client and the team.

The documentation to be consolidated is the Project Proposal (Deliverable 1), the Functional Specification (Deliverable 2), the System Prototype (Deliverable 3), the Technical Specification (Deliverable 4) and the Internally Tested System (Deliverable 5).

2 Validation

2.1 Introduction

This section contains a detailed tracing and validation of each requirement to each element of the technical specification of the proposed system in order to ascertain whether the technical specification caters to each requirements that were set forth by the client.

2.2 Validation

Subsystem:	Use Case:	Process(DFD)	Entities(ERD):	Screen/Page	Reports and other Outputs
1 Employee	1.1 Log in	1.1.1 Displays the log in screen	None	LOGIN SCREEN	None
		1.1.2 Capture username and password	EMPLOYEE	LOGIN SCREEN	None
		1.1.3 Validate username and password	EMPLOYEE	LOGIN SCREEN	None
		1.1.4 Create new active user entry	ACTIVE_USER	LOGIN SCREEN	None
		1.1.5 Displays home screen	CLIENT CLIENT_CONTACT BOOKING_INSTANCE BOOKING	MAIN MENU	None
	1.2 Create employee	1.2.1 Displays login screen	None	LOGIN SCREEN	None
		1.2.2 Displays registration token screen	None	REGISTRATION SCREEN	None
		1.2.3 Validates registration token provided	REGISTRATION_TOKEN	REGISTRATION SCREEN	None
		1.2.4 Assigns access level according to registration token	REGISTRATION_TOKEN ACCESS_LEVEL	REGISTRATION SCREEN	None

Subsystem:	Use Case:	Process(DFD)	Entities(ERD):	Screen/Page	Reports and other Outputs
		1.2.5 Display registration screen	None	REGISTRATION SCREEN	None
		1.2.6 Capture registration details	PASSWORD ADDRESS EMPLOYEE	REGISTRATION_ SCREEN	None
		1.2.7 Validates that all of the fields have been entered and are in the correct format	None	REGISTRATION_ SCREEN	None
		1.2.8 Validates that the entered details do not match any existing details	EMPLOYEE	REGISTRATION_ SCREEN	None
		1.2.9 Create new employee ID	EMPLOYEE	REGISTRATION_ SCREEN	None
		1.2.10 Display successful register notification	None	None	Notification
		1.2.11 Display login screen	None	LOGIN SCREEN	None
	1.3 Search employee	1.3.1 Displays home screen	None	HOME SCREEN	None
		1.3.2 Displays Employee index screen	EMPLOYEE EMPLOYEE TYPE GENDER	EMPLOYEE INDEX SCREEN	None
		1.3.3 Displays the reloaded employee index screen	EMPLOYEE EMPLOYEE TYPE GENDER	EMPLOYEE INDEX SCREEN	None
	1.4 Update employee details	1.4.1 Display home screen	None	HOME SCREEN	None
		1.4.2 Display edit user screen	EMPLOYEE PASSWORD ADDRESS	EDIT USER SCREEN	None
		1.4.3 Validates that all of the fields have been entered	None	EDIT USER SCREEN	None

Subsystem:	Use Case:	Process(DFD)	Entities(ERD):	Screen/Page	Reports and other Outputs
		and are in the correct format			
		1.4.4 Display confirm update notification	None	None	None
		1.4.5 Display successful update notification	None	None	Notification
		1.4.6 Display home screen	None	HOME SCREEN	None
	1.5 Delete employee	1.5.1 Displays home screen	None	HOME SCREEN	None
		1.5.2 Displays Employee index screen	EMPLOYEE EMPLOYEE TYPE GENDER	EMPLOYEE INDEX	None
		1.5.3 Display delete screen	EMPLOYEE EMPLOYEE TYPE GENDER	DELETE SCREEN	None
		1.5.4 Display employee index screen	EMPLOYEE EMPLOYEE TYPE GENDER	EMPLOYEE INDEX	None
	1.6 Create access level	1.6.1 Displays create access	None	CREATE ACCESS LEVEL SCREEN	None
		1.6.2 Capture and validates that all of the fields have been entered	None	CREATE ACCESS LEVEL SCREEN	None
		1.6.3 Validates that the entered don't match an existing access level	ACCESS_LEVEL	CREATE ACCESS LEVEL SCREEN	None
		1.6.4 Create new access level ID	ACCESS_LEVEL	CREATE ACCESS LEVEL SCREEN	None
		1.6.5 Saves new access level details	ACCESS_LEVEL	CREATE ACCESS LEVEL SCREEN	None
		1.6.6 Displays home screen	None	HOMES SCREEN	None
	1.7 Modify access level	1.7.1 Display access level index screen	ACCESS_LEVEL	ACCESS LEVEL INDEX SCREEN	None

Subsystem:	Use Case:	Process(DFD)	Entities(ERD):	Screen/Page	Reports and other Outputs
		1.7.2 Display Update access level screen	None	UPDATE ACCESS LEVEL SCREEN	None
		1.7.3 Capture and validates that all of the fields have been entered	None	UPDATE ACCESS LEVEL SCREEN	None
		1.7.4 Save new access level information	ACCESS_LEVEL	UPDATE ACCESS LEVEL SCREEN	None
		1.7.5 Email to the sales rep to notify them of the access level	None	None	Email
		1.7.6 Displays access level index screen	None	ACCESS LEVEL INDEX SCREEN	None
	1.8 General marketing email	1.8.1 Display Marketing Notification screen	MARKETING	MARKETING NOTIFICATION SCREEN	None
		1.8.2 Captures and validate that all of the fields have been entered	None	MARKETING NOTIFICATION SCREEN	None
		1.8.3 Generate new Marketing ID	MARKETING	MARKETING NOTIFICATION SCREEN	None
		1.8.4 Sends Marketing notifications details	None	None	None
		1.8.5 Saves new marketing notification details	MARKETING	None	None
		1.8.6 Display successful marketing notification sent	None	None	Notification
	1.9 General internal notification	1.9.1 Display internal	NOTFICATION	INTERNAL NOTIFICATION SCREEN	None

Subsystem:	Use Case:	Process(DFD)	Entities(ERD):	Screen/Page	Reports and other Outputs
		Notification screen			
		1.9.2 Captures and validates that all of the fields have been entered	None	INTERNAL NOTIFICATION SCREEN	None
		1.9.3 Generate new notification ID	NOTFICATION	INTERNAL NOTIFICATION SCREEN	None
		1.9.4 Send internal notification to employees	MAILING_LIST	None	None
		1.9.5 Saves new internal notification	NOTFICATION	INTERNAL NOTIFICATION SCREEN	None
		1.9.6 Display successful internal notification sent	None	None	Notification
		1.9.7 Display Home Screen	None	HOME SCREEN	None
	1.10 Forgot Password	1.10.1 Display Login screen	None	LOGIN SCREEN	None
		1.10.2 Display forgot password screen	None	FORGOT PASSWORD SCREEN	None
		1.10.3 Validates that the email address has an @ sign	EMPLOYEE	FORGOT PASSWORD	None
		1.10.4 Validates that the email matches the email in the database	EMPLOYEE	FORGOT PASSWORD	None
		1.10.5 Sends Password to validated email	EMPLOYEE	FORGOT PASSWORD	Email
		1.10.6 Display login screen	None	LOGIN SCREEN	None

Subsystem:	Use Case:	Process(DFD)	Entities(ERD):	Screen/Page	Reports and other Outputs
	1.11 Log Out	1.11.1 Display drop down menu	None	HOME SCREEN	None
		1.11.2 Display log in screen	ACTIVE_USER	LOG IN SCREEN	None
2 Client	2.1 Create client	2.1.1 Select drop down menu	None	HOME SCREEN	None
		2.1.2 Display Dropdown	None	HOME SCREEN	None
		2.1.3 Selects 'Clients' button	CLIENT	HOME SCREEN	None
		2.1.4 Load and display search client screen	CLIENT	CLIENT SCREEN	None
		2.1.5 Selects 'Add client' button	CLIENT	CLIENT SCREEN	None
		2.1.6 Display 'Add client' screen	None	ADD CLIENT SCREEN	None
		2.1.7 Enters all required details	None	ADD CLIENT SCREEN	None
		2.1.8 Selects 'Add client' button	None	ADD CLIENT SCREEN	None
		2.1.9 Validate Info	None	ADD CLIENT SCREEN	None
		2.1.10 Check for duplicates	None	ADD CLIENT SCREEN	None
		2.1.11 Generate new client ID	None	ADD CLEINT SCREEN	None
		2.1.12 Save new client data	None	ADD CLEINT SCREEN	None
		2.1.13 Notify successfully saved	None	None	Notification
		2.1.14 Selects 'Dismiss' button	None	None	None
		2.1.15 Load and display 'Search Client' screen	AUDIT_TRAIL	SEARCH CLIENT SCREEN	None

Subsystem:	Use Case:	Process(DFD)	Entities(ERD):	Screen/Page	Reports and other Outputs
	2.2 Search client	2.2.1 Display dropdown menu	CLIENT	HOME SCREEN	None
		2.2.2 Display client screen	None	CLIENT SCREEN	None
		2.2.3 Validates that the name matches the name in database	CLIENT	CLIENT SCREEN	None
		2.2.4 Display result panel	None	None	None
		2.2.5 Display client info screen	None	CLIENT INFO SCREEN	None
	2.3 Update client details	2.3.1 Clicks 'Menu drop down'	None	HOME SCREEN	None
		2.3.2 Load and display drop down menu	None	HOME SCREEN	None
		2.3.3 Selects 'Clients' button	CLIENT	HOME SCREEN	None
		2.3.4 Load and display 'Client' screen	CLIENT	CLIENT SCREEN	None
		2.3.5 Reload and display 'Client' screen	None	CLIENT SCREEN	None
		2.3.6 Enters Updated information	None	CLIENT SCREEN	None
		2.3.7 Selects 'Update Client' button	None	CLIENT SCREEN	None
		2.3.8 Validates that all fields are correct and in the correct format	None	CLIENT SCREEN	None
		2.3.9 Save the new updated information to the database	None	CLIENT SCREEN	None
		2.3.10 Generate	None	None	Notification

Subsystem:	Use Case:	Process(DFD)	Entities(ERD):	Screen/Page	Reports and other Outputs
		successful notification			
		2.3.11 Clicks 'Dismiss' button	None	None	None
		2.3.12 Load and display clients screen	AUDIT_TRAIL	CLIENT SCREEN	None
	2.4 Delete client	2.4.1 Display drop down menu	None	HOME SCREEN	None
		2.4.2 Display client screen	None	CLIENT SCREEN	None
		2.4.3 Display reloaded client screen	CLIENT	CLIENT SCREEN	None
		2.4.4 Validate that there are no bookings with client	None	CLIENT SCREEN	None
		2.4.5 Display confirmation notification	None	None	Notification
		2.4.6 Display successful deletion notification	None	None	Notification
		2.4.7 Display client Screen	AUDIT_TRAIL	CLIENT SCREEN	None
	2.5 Create client contact	2.5.1 Load and display drop down menu	None	MAIN MENU SCREEN	None
		2.5.2 Load and display client screen	None	CLIENT SCREEN	None
		2.5.3 Reload and display client screen	None	CLIENT SCREEN	None
		2.5.4 Load and display client contact info screen	CLIENT_CONTACT	CLEINT CONTACT INFO SCREEN	None
		2.5.5 Validate the captured information	CLIENT_CONTACT	CLEINT CONTACT INFO SCREEN	None

Subsystem:	Use Case:	Process(DFD)	Entities(ERD):	Screen/Page	Reports and other Outputs
		2.5.6 Generate new client contact ID	CLIENT_CONTACT	CLEINT CONTACT INFO SCREEN	None
		2.5.7 Save new client contact details	None	CLEINT CONTACT INFO SCREEN	None
		2.5.8 Generate and display successful message	None	None	Notification
		2.5.9 Reload client info screen	AUDIT_TRAIL	CLIENT INFO SCREEN	None
	2.6 Update client contact information	2.6.1 Select menu icon	None	MAIN MENU SCREEN	None
		2.6.2 Search client contact	None	MAIN MENU SCREEN	None
		2.6.3 Select client contact to update	None	MAIN MENU SCREEN	None
		2.6.4 Load and display client contact screen	CLIENT_CONTACT	CLIENT CONTACT SCREEN	None
		2.6.5 Enter updated	None	CLIENT CONTACT SCREEN	None
		2.6.6 Select “Update Contact” Button	None	CLIENT CONTACT SCREEN	None
		2.6.7 System validates the updated information	None	CLIENT CONTACT SCREEN	None
		2.6.8 The system saves the updated information	CLIENT_CONTACT	CLIENT CONTACT SCREEN	None
		2.6.9 Generate and display successful notification	None	None	Notification
		2.6.10 Select the “Dismiss” Button	None	None	None

Subsystem:	Use Case:	Process(DFD)	Entities(ERD):	Screen/Page	Reports and other Outputs
		2.6.11 Reload and display client contact screen	CLIENT_CONTACT ADDRESS	CLIENT CONTACT SCREEN	None
	2.7 Delete client contact	2.7.1 Generate and display drop down menu	None	MENU SCREEN	None
		2.7.2 Generate and display client screen	None	CLIENT SCREEN	None
		2.7.3 Generate and display client contact info screen	None	CLIENT INFO SCREEN	None
		2.7.4 Validate that there are no booking with the client	None	CLIENT INFO SCREEN	None
		2.7.5 Display confirmation notification	CLIENT CONTACT	None	Notification
		2.7.6 Display successful deletion notification	None	None	Notification
		2.7.7 Display client contact screen	AUDIT_TABLE	CLIENT CONTACT SCREEN	None
3 Training course	3.1 Create training course	3.1.1 Display Training Course index screen	None	TRAINING COURSE INDEX SCREEN	None
		3.1.2 Display create new menu screen	None	CREATE NEW MENU SCREEN	None
		3.1.3 Captures and validates that all of the fields have been entered	None	CREATE NEW MENU SCREEN	None
		3.1.4 Validates that the entered	TRAINING_COURSE	CREATE NEW MENU SCREEN	None
		3.1.5 Create new training course ID	TRAINING_COURSE	CREATE NEW MENU SCREEN	None

Subsystem:	Use Case:	Process(DFD)	Entities(ERD):	Screen/Page	Reports and other Outputs
		3.1.6 Saves new training course	TRAINING_COURSE	CREATE NEW MENU SCREEN	None
		3.1.7 Display training course index screen	AUDIT_TRAIL	TRAINING COURSE INDEX SCREEN	None
	3.2 Search training course	3.2.1 Displays training course index screen	TRAINING_COURSE	TRAINING COURSE INDEX SCREEN	None
		3.2.2 Displays the reloaded training course index screen.	None	TRAINING COURSE INDEX SCREEN	None
	3.3 Update training course	3.3.1 Displays training course index screen	None	TRAINING COURSE INDEX SCREEN	None
		3.3.2 Display edit screen	TRAINING_COURSE	EDIT SCREEN	None
		3.3.3 Captures and validates that all fields have been entered in correctly	None	EDIT SCREEN	None
		3.3.4 Display training course screen	None	TRAINING COURSE SCREEN	None
	3.4 Delete training course	3.4.1 Display training course index screen	None	TRAINING COURSE INDEX SCREEN	None
		3.4.2 Displays delete screen	TRAINING_COURSE	DELETE SCREEN	None
		3.4.3 Display training course index	AUDIT_TRAIL	TRAINING COURSE INDEX	None
4 Training course instance	4.1 Create training course instance	4.1.1 Display Training course instance index screen	TRAINING_COURSE_INSTANCE	TRAINING COURSE INSTANCE INDEX SCREEN	None
		4.1.2 Display create new screen	None	CREATE NEW SCREEN	None
		4.1.3 Capture and validates that all the fields have been entered	None	CREATE NEW SCREEN	None

Subsystem:	Use Case:	Process(DFD)	Entities(ERD):	Screen/Page	Reports and other Outputs
		4.1.4 Validates the entered don't match an existing training course instance	TRAINING_COURSE_INSTANCE	CREATE NEW SCREEN	None
		4.1.5 Create new training course instance ID	TRAINING_COURSE_INSTANCE	CREATE NEW SCREEN	None
		4.1.6 Saves new training course instance details	TRAINING_COURSE_INSTANCE	CREATE NEW SCREEN	None
		4.1.7 Email to the sales rep to notify them of the training course instance	None	CREATE NEW SCREEN	Email
		4.1.8 Display training course instance index screen	None	TRAINING COURSE INSTANCE INDEX SCREEN	None
	4.2 Search training course instance	4.2.1 Display Training course instance index screen	TRAINING_COURSE_INSTANCE	TRAINING_COURSE_INSTANCE	None
		4.2.2 Displays the reloaded training course instance index screen	TRAINING_COURSE_INSTANCE	TRAINING_COURSE_INSTANCE	None
	4.3 Update training course instance	4.3.1 Display Training course instance index screen	TRAINING_COURSE_INSTANCE	TRAINING COURSE INSTANCE INDEX SCREEN	None
		4.3.2 Display edit screen	None	EDIT SCREEN	None
		4.3.3 Captures and validates that all fields have been entered in correctly	None	EDIT SCREEN	None
		4.3.4 Save new training course instance details	TRAINING_COURSE_INSTANCE	EDIT SCREEN	None

Subsystem:	Use Case:	Process(DFD)	Entities(ERD):	Screen/Page	Reports and other Outputs
		4.3.5 Email to the sales rep to notify them of the training course instance	None	None	Email
		4.3.6 Display Training course instance index screen	None	TRAINING COURSE INSTANCE INDEX SCREEN	None
	4.4 Delete training course instance	4.4.1 Display Training course instance index screen	TRAINING_COURSE_INSTANCE	TRAINING COURSE INSTANCE INDEX SCREEN	None
		4.4.2 Displays delete screen	None	DELETE SCREEN	None
		4.4.3 Email to the sales rep notify them of the training course instance	TRAINING_COURSE_INSTANCE	None	Email
		4.4.4 Display Training course index	None	TRAINING COURSE INDEX SCREEN	None
	4.5 Capture sales representative attendance	4.5.1 Display training course index screen	TRAINING_COURSE_INSTANCE	TRAINING COURSE INDEX SCREEN	None
		4.5.2 Displays the Sales rep attendance index screen	ATTENDANCE	SALES REP ATTENDANCE INDEX SCREEN	None
		4.5.3 Save employee attendance	ATTENDANCE	SALES REP ATTENDANCE INDEX SCREEN	None
		4.5.4 Display training course index screen	None	TRAINING COURSE INDEX SCREEN	None
5 Venue	5.1 Create venue	5.1.1 Display venue index screen	None	VENUE INDEX	None
		5.1.2 Display create new screen	None	CREATE NEW SCREEN	None
		5.1.3 Capture and validates that all of the fields have been entered	VENUE	CREATE NEW SCREEN	None

Subsystem:	Use Case:	Process(DFD)	Entities(ERD):	Screen/Page	Reports and other Outputs
		5.1.4 Validates that the entered details do not match an existing venue details	VENUE	CREATE NEW SCREEN	None
		5.1.5 Create new venue ID	VENUE	CREATE NEW SCREEN	None
		5.1.6 Saves new venue details		CREATE NEW SCREEN	None
		5.1.7 Display venue index screen	AUDIT_TRAIL	VENUE INDEX	None
	5.2 Search venue	5.2.1 Display venue index screen	VENUE	VENUE INDEX	None
		5.2.2 Reload venue index screen	None	VENUE INDEX	None
	5.3 Update venue	5.3.1 Display venue index screen	None	VENUE INDEX SCREEN	None
		5.3.2 Display edit screen	None	EDIT SCREEN	None
		5.3.3 Captures and validates that all fields have been entered correctly	VENUE	EDIT SCREEN	None
		5.3.4 Display edit screen	VENUE	EDIT SCREEN	None
	5.4 Delete venue	5.4.1 Display venue index screen	None	VENUE INDEX SCREEN	None
		5.4.2 Display delete screen	None	DELETE SCREEN	None
		5.4.3 Display venue index screen	VENUE	Venue Index Screen	None
6 Bookings	6.1 Create booking	6.1.1 Display add booking screen	None	ADD BOOKING SCREEN	None
		6.1.2 Captures and validates	None	ADD BOOKING SCREEN	None

Subsystem:	Use Case:	Process(DFD)	Entities(ERD):	Screen/Page	Reports and other Outputs
		all fields are entered			
		6.1.3 Validates that there are no conflicting booking	BOOKING	ADD BOOKING SCREEN	None
		6.1.4 Create new	BOOKING	ADD BOOKING SCREEN	None
		6.1.5 Email to the client contact to notify them of booking	BOOKING	None	Email
		6.1.6 Successful addition of booking message box notification	None	None	Notification
		6.1.7 Display home screen	None	HOME SCREEN	None
	6.2 Search booking	6.2.1 Display Search Booking screen	BOOKING	SEARCH BOOKING SCREEN	None
		6.2.2 Reload search booking screen	None	SEARCH BOOKING SCREEN	None
		6.2.3 Display booking info screen	BOOKING	BOOKING INFO SCREEN	None
	6.3 Modify booking	6.3.1 Displays the booking options menu	None	HOME SCREEN	None
		6.3.2 Display edit screen	None	EDIT SCREEN	None
		6.3.3 Display confirmation notification	None	None	None
		6.3.4 Captures and validates that all fields have been entered correctly	None	EDIT SCREEN	None
		6.3.5 Validates that there are	BOOKING	EDIT SCREEN	None

Subsystem:	Use Case:	Process(DFD)	Entities(ERD):	Screen/Page	Reports and other Outputs
		no conflicting bookings			
		6.3.6 Save new booking information	None	EDIT SCREEN	None
		6.3.7 Email to the client contact to notify them of the changes	None	None	Email
		6.3.8 Successful addition of booking message box notification	BOOKING	None	Notification
		6.3.9 Display home screen	AUDIT_TRAIL	HOME SCREEN	None
	6.4 Delete booking	6.4.1 Display home screen	None	HOME SCREEN	None
		6.4.2 Displays the booking Options menu	None	HOME SCREEN	None
		6.4.3 Display confirmation notification	BOOKING	None	None
		6.4.4 Email to the client contract to notify them of the booking cancelation	None	None	Email
		6.4.5 Successful deletion of booking message box notification	None	None	Notification
	6.5 Book and confirm training course	6.5.1 Display drop down menu		HOME SCREEN	None
		6.5.2 Display Training Course screen	TRAINING_COURSE ATTENDANCE	TRAINING COURSE SCREEN	None
		6.5.3 Display confirmation notification	None	None	None

Subsystem:	Use Case:	Process(DFD)	Entities(ERD):	Screen/Page	Reports and other Outputs
		6.5.4 Display home screen	None	HOME SCREEN	None
	6.6 Create Reminder	6.6.1 Display search booking screen	None	SEARCH BOOKINGS SCREEN	None
		6.6.2 Displays the booking option menu	None	SEARCH BOOKINGS SCREEN	None
		6.6.3 Display create reminder screen	None	CREATE REMINDER SCREEN	None
		6.6.4 Captures and validate that all fields have been entered incorrectly	None	CREATE REMINDER SCREEN	None
		6.6.5 Save and create a new reminder	REMINDER	CREATE REMINDER SCREEN	None
		6.6.6 Successful addition of booking message box notification	None	None	Notification
		6.6.7 Display home screen	None	HOME SCREEN	None
	6.7 Delete Reminder	6.7.1 Display Search booking screen	None	SEARCH BOOKING SCREEN	None
		6.7.2 Displays the booking options menu	None	SEARCH BOOKING SCREEN	None
		6.7.3 Display delete reminder	BOOKING_REMINDER	None	None
		6.7.4 Display confirmation notification	BOOKING_REMINDER	None	None
		6.7.5 Successful deletion of reminder message box notification	None	None	Notification

Subsystem:	Use Case:	Process(DFD)	Entities(ERD):	Screen/Page	Reports and other Outputs
		6.7.6 Display home screen	None	HOME SCREEN	None
7 Maintenance	7.1 Create task	7.1.1 Load and display Task Index screen	TASK	TASK INDEX SCREEN	None
		7.1.2 Load and display create new task screen	None	CREATE NEW TASK SCREEN	None
		7.1.3 The system validates the entered information	None	CREATE NEW TASK SCREEN	None
		7.1.4 The system validates to check for duplicates	TASK	CREATE NEW TASK SCREEN	None
		7.1.5 The system saves the task details	TASK	CREATE NEW TASK SCREEN	None
		7.1.6 Loads and displays task index screen	None	TASK INDEX SCREEN	None
	7.2 Search task	7.2.1 Load and display task index screen	TASK	TASK INDEX SCREEN	None
		7.2.2 Search Client Details	TASK	TASK INDEX SCREEN	None
		7.2.3 Reload Index Screen	None	TASK INDEX SCREEN	None
	7.3 Update task	7.3.1 Load and display task index screen	TASK	TASK INDEX SCREEN	None
		7.3.2 Display edit screen	None	EDIT SCREEN	None
		7.3.3 Captures and validates that all fields have been entered correctly	TASK	EDIT SCREEN	None
		7.3.4 Display task Screen	None	TASK SCREEN	None

Subsystem:	Use Case:	Process(DFD)	Entities(ERD):	Screen/Page	Reports and other Outputs
	7.4 Delete task	7.4.1 Display Task index screen	TASK	TASK INDEX SCREEN	None
		7.4.2 Display Delete task Screen	TASK	DELETE TASK SCREEN	None
		7.4.3 Display Task Index Screen	None	TASK INDEX SCREEN	None
	7.5 Maintain employee type	7.5.1 Load and display employee type index screen	EMPLOYEE_TYPE	EMPLOYEE TYPE INDEX SCREEN	None
		7.5.2 Load and display create new screen	None	CREATE NEW SCREEN	None
		7.5.3 Validate the new details	None	CREATE NEW SCREEN	None
		7.5.4 Validates for duplicates	EMPLOYEE_TYPE	CREATE NEW SCREEN	None
		7.5.5 Save new details	EMPLOYEE_TYPE	CREATE NEW SCREEN	None
		7.5.6 Load and display Employee type index screen	None	EMPLOYEE TYPE INDEX SCREEN	None
	7.6 Maintain client type	7.6.1 Load and display client type index screen	CLIENT_TYPE	CLIENT TYPE INDEX SCREEN	None
		7.6.2 Load and display create new screen	None	CREATE NEW SCREEN	None
		7.6.3 Validate the new details	None	CREATE NEW SCREEN	None
		7.6.4 Validate for duplicates	CLIENT_TYPE	CREATE NEW SCREEN	None
		7.6.5 Save new details	None	CREATE NEW SCREEN	None
		7.6.6 Load and display client type index screen	None	CLIENT TYPE INDEX SCREEN	None
	7.7 Maintain training course type	7.7.1 Load and display Training course index screen	TRAINING_COURSE	TRAINING COURSE INDEX SCREEN	None

Subsystem:	Use Case:	Process(DFD)	Entities(ERD):	Screen/Page	Reports and other Outputs
		7.7.2 Load and display create new screen	None	CREATE NEW SCREEN	None
		7.7.3 Validate the new details	None	CREATE NEW SCREEN	None
		7.7.4 Validate for duplicates	TRAINING_COURSE	CREATE NEW SCREEN	None
		7.7.5 Save new details	TRAINING_COURSE	CREATE NEW SCREEN	None
		7.7.6 Load and display Training Course index screen	None	TRAINING COURSE INDEX SCREEN	None
	7.8 Maintain booking type	7.8.1 Load and display Booking type index screen	BOOKING_TYPE	BOOKING TYPE INDEX SCREEN	None
		7.8.2 Load and display create new screen	None	CREATE NEW SCREEN	None
		7.8.3 Validate new details	None	CREATE NEW SCREEN	None
		7.8.4 Validate for duplicates	BOOKING_TYPE	CREATE NEW SCREEN	None
		7.8.5 Save new details	BOOKING_TYPE	CREATE NEW SCREEN	None
		7.8.6 Load and display Booking type index screen	None	BOOKING TYPE INDEX SCREEN	None
	7.9 Generate and assign registration token	7.9.1 Load and display Generate registration screen	ACCESS_LEVEL	GENERATE REGISTRATION SCREEN	None
		7.9.2 Validate the new information	None	GENERATE REGISTRATION SCREEN	None
		7.9.3 Generate new registration token	None	GENERATE REGISTRATION SCREEN	None
		7.9.4 Validates to check for duplicates	None	GENERATE REGISTRATION SCREEN	None

Subsystem:	Use Case:	Process(DFD)	Entities(ERD):	Screen/Page	Reports and other Outputs
		7.9.5 Save registration token	REGISTRATION_TOKEN	GENERATE REGISTRATION SCREEN	None
		7.9.6 Load and display home index screen	None	HOME INDEX SCREEN	None
	7.10 Update Quote Status	7.10.1 Get Quote status information	QUOTE	None	None
		7.10.2 Check Quote status	None	None	None
		7.10.3 Update quote	None	None	None
		7.10.4 Save updated status	QUOTE_STATUS	None	None
8 Milestones	8.1 Create and assign milestone	8.1.1 Display milestone index screen	None	MILESTONE INDEX SCREEN	None
		8.1.2 Display Create milestone screen	None	CREATE MILESTONE SCREEN	None
		8.1.3 Capture and validates that all of the fields have been entered	None	CREATE MILESTONE SCREEN	None
		8.1.4 Validates that the entered details do not match an milestone details	EMPLOYEE_MILESTONE	CREATE MILESTONE SCREEN	None
		8.1.5 Create new milestone ID	EMPLOYEE_MILESTONE	CREATE MILESTONE SCREEN	None
		8.1.6 Saves new milestone details	EMPLOYEE_MILESTONE	CREATE MILESTONE SCREEN	None
		8.1.7 Display assign screen	None	ASSIGN SCREEN	None
		8.1.8 Validates that all fields have been entered	None	ASSIGN SCREEN	None
		8.1.9 Validates that the	EMPLOYEE_MILESTONE	ASSIGN SCREEN	None

Subsystem:	Use Case:	Process(DFD)	Entities(ERD):	Screen/Page	Reports and other Outputs
		entered details do not match an milestone details			
		8.1.10 Saves milestone assign information	EMPLOYEE_MILESTONE	ASSIGN SCREEN	None
		8.1.11 Display Milestone Index Screen	None	MILESTONE INDEX SCREEN	None
	8.2 Search milestone	8.2.1 Display Milestone index screen	None	MILESTONE INDEX SCREEN	None
		8.2.2 Reload milestone index screen	MILESTONE	MILESTONE INDEX SCREEN	None
	8.3 Update milestone	8.3.1 Display Milestone index screen	None	MILESTONE INDEX SCREEN	None
		8.3.2 Display edit screen	MILESTONE	EDIT SCREEN	None
		8.3.3 Captures and validates that all fields have been entered in correctly	MILESTONE	EDIT SCREEN	None
		8.3.4 Display edit screen	None	EDIT SCREEN	None
	8.4 Delete milestone	8.4.1 Display Milestone screen	MILESTONE	MILESTONE SCREEN	None
		8.4.2 Display delete screen	None	DELETE SCREEN	None
		8.4.3 Display milestone index screen	AUDIT_TRAIL	MILESTONE INDEX SCREEN	None
9 Sales Representative	9.1 Capture start time and location	9.1.1 Displays booking option menu	None	MAIN SCREEN	None
		9.1.2 Display Confirmation	None	MAIN SCREEN	None
		9.1.3 Display bookings tasks screen	None	BOOKING TASK SCREEN	None

Subsystem:	Use Case:	Process(DFD)	Entities(ERD):	Screen/Page	Reports and other Outputs
		9.1.4 Request GPS	None	BOOKING TASK SCREEN	None
		9.1.5 Capture location	ADDRESS	BOOKING TASK SCREEN	None
		9.1.6 Capture start time	BOOKING_INSTANCE	BOOKING TASK SCREEN	None
		9.1.7 Load and display screen	None	BOOKING TASK SCREEN	None
	9.2 Capture tasks	9.2.1 Display drop down menu	TASK	BOOKING TASK SCREEN	None
		9.2.2 Load booking task screen	None	BOOKING TASK SCREEN	None
		9.2.3 Reload booking task screen	None	BOOKING TASK SCREEN	None
		9.2.4 Display added task details	None	BOOKING TASK SCREEN	None
	9.3 Capture end time	9.3.1 Capture current time	BOOKING_INSTANCE	BOOKING TASK SCREEN	None
		9.3.2 Save booking task completed	TASKS_COMPLETED	BOOKING TASK SCREEN	None
		9.3.3 Load and display home screen	None	BOOKING TASK SCREEN	None
10 Reports	10.1 Generate quote and order report	10.1.1 Display order and quote report screen	None	QUOTES AND ORDER REPORTING SCREEN	None
		10.1.2 Captures and validates that all of the fields have been selected	None	QUOTES AND ORDER REPORTING SCREEN	None
		10.1.3 Generate order and quote report	QUOTE QOUTE_STATUS	QUOTES AND ORDER REPORTING SCREEN	None
		10.1.4 Display quote and order report	None	QUOTES AND ORDER REPORTING SCREEN	Order quote report
	10.2 Generate weekly	10.2.1 Display weekly	None	WEEKLY PROGRESS	None

Subsystem:	Use Case:	Process(DFD)	Entities(ERD):	Screen/Page	Reports and other Outputs
	progress report	progress report screen		REPORTING SCREEN	
		10.2.2 Captures and validates that all of the fields have been selected	EMPLOYEE	WEEKLY PROGRESS REPORTING SCREEN	None
		10.2.3 Generate weekly progress report	EMPLOYEE EMPLOYEE_MILESTONES	WEEKLY PROGRESS REPORTING SCREEN	None
		10.2.4 Display weekly progress report	None	WEEKLY PROGRESS REPORTING SCREEN	Weekly progress report
	10.3 Generate training report	10.3.1 Display Training report screen	None	TRAINING REPORTING SCREEN	None
		10.3.2 Captures and validates that all of the fields have been selected	EMPLOYEE	TRAINING REPORTING SCREEN	None
		10.3.3 Generate training report	EMPLOYEE ATTENDANCE TRAINING_COURSE_INSTANCE	TRAINING REPORTING SCREEN	None
		10.3.4 Display training report	None	TRAINING REPORTING SCREEN	Training report
	10.4 Generate projected bookings report	10.4.1 Display Projected booking report screen	None	PROJECTED BOOKING REPORT SCREEN	None
		10.4.2 Captures and validates that all the fields have been selected	EMPLOYEE	PROJECTED BOOKING REPORT SCREEN	None
		10.4.3 Generate Projected booking report	EMPLOYEE BOOKING CLIENT	PROJECTED BOOKING REPORT SCREEN	None
		10.4.4 Display projected booking report	None	PROJECTED BOOKING REPORT SCREEN	Projected booking report

Subsystem:	Use Case:	Process(DFD)	Entities(ERD):	Screen/Page	Reports and other Outputs
	10.5 Generate actual booking report	10.5.1 Display Actual booking report screen	None	ACTUAL BOOKING REP SCREEN	None
		10.5.2 Captures and validates that all of the fields have been selected	EMPLOYEE	ACTUAL BOOKING REP SCREEN	None
		10.5.3 Generate actual booking report	EMPLOYEE BOOKING_INSTANCE	ACTUAL BOOKING REP SCREEN	None
		10.5.4 Display actual booking report	None	ACTUAL BOOKING REP SCREEN	Actual booking report
11. Instructor	11.1 Create Instructor	11.1.1 Display Instructor index screen	INSTRUCTOR	MAIN SCREEN	None
		11.1.2 Display Create new screen	**None**	INSTRUCTOR INDEX SCREEN	None
		11.1.3 Capture and validates that all of the fields have been entered	**None**	CREATE INSTRUCTOR SCREEN	None
		11.1.4.Validates that the entered details do not match any existing details	INSTRUCTOR	CREATE INSTRUCTOR SCREEN	None
		11.1.5 Create new instructor ID	INSTRUCTOR	CREATE INSTRUCTOR SCREEN	None
		11.1.6 Saves new instructor details	INSTRUCTOR	CREATE INSTRUCTOR SCREEN	None
		11.1.7 Display Instructor index screen	INSTRUCTOR	MAIN SCREEN	None
	11.2 Search Instructor	11.2.1 Display Instructor index screen	None	MAIN SCREEN	None
		11.2.2 Reload Instructor index screen	INSTRUCTOR	INSTRUCTOR INDEX SCREEN	None

Subsystem:	Use Case:	Process(DFD)	Entities(ERD):	Screen/Page	Reports and other Outputs
	11.3 Update Instructor details	11.3.1 Display Instructor index screen	None	MAIN SCREEN	None
		11.3.2 Display edit screen	INSTRUCTOR	EDIT INSTRUCTOR SCREEN	None
		11.3.3 Capture and validates that all of the fields have been entered	INSTRUCTOR	EDIT INSTRUCTOR SCREEN	None
		11.3.4 Display edit screen	INSTRUCTOR	EDIT INSTRUCTOR SCREEN	None
	11.4 Delete Instructor	11.4.1 Display Instructor index screen	None	INSTRUCTOR INDEX SCREEN	None
		11.4.2 Display delete screen	INSTRUCTOR	DELETE INSTRUCTOR SCREEN	None
		11.4.3 Display Instructor index screen	AUDIT_TRAIL	INSTRUCTOR INDEX SCREEN	None
	11.5 Maintain instructor type	11.5.1 Load and display instructor type index screen	INSTRUCTOR_TYPE	INSTRUCTOR TYPE INDEX SCREEN	None
		11.5.2 Load and display create new screen	None	CREATE INSTRUCTOR SCREEN	None
		11.5.3 Validate the new details	None	CREATE INSTRUCTOR SCREEN	None
		11.5 .4 Validate for duplicates	INSTRUCTOR_TYPE	CREATE INSTRUCTOR SCREEN	None
		11.5.5 Save new details	INSTRUCTOR_TYPE	CREATE INSTRUCTOR SCREEN	None
		11.5.6 Load and display instructor type index screen	INSTRUCTOR_TYPE	INSTRUCTOR TYPE INDEX SCREEN	None

2.3 Conclusion

This section validated each of the proposed system's requirements against the technical specification stated in this document above, and the ArdorTech team found that the validation succeeded – the technical specification addresses each of the requirements of the proposed system.

3 CRUD Matrix

<u>Please refer to Appendix II : CRUD Matrix</u>

ROTM

REPS ON THE MOVE

GROUP 12

APPENDIX II | CRUD MATRIX

Content & Purpose:

The CRUD Matrix provides a reconciliation of all the database entities and their various attributes with the use cases they are used in to perform CRUD actions. The CRUD Matrix is constructed as a tabular matrix with entities, attributes and the all the use cases.

Team names from photo (left to right):

Sampie Jonker, John Loxton, Xanderie Jorna, Brett Felton, Chad Fox

Group Information:

John Loxton (Team Leader)	14263125	johnglox@gmail.com	073 012 3733
Chad Fox	15185550	u15185550@tuks.co.za	084 297 4847
Brett Felton	15057471	bmfelton@live.com	071 553 5917
Sampie Jonker	14053072	u14053072@tuks.co.za	074 079 0691
Xanderie Jorna	16248971	u16248971@tuks.co.za	083 602 7080

4 Conversion Plan

4.1 Introduction

This section discusses and outlines the conversion plan that Ardortech recommends following to ensure that a smooth transition to the new Reps On The Move system. The conversion plan contains background information including the current system used, the way the conversion will take place, analysis of the conversion process as well as planning and time frame estimation.

4.2 Conversion Plan

4.2.1 Background Information

Conversion plans are essential in the process of converting from an older, most likely paper-based system to a brand new digital system. This conversion plan describes the strategies that involve converting the data from the old system to the new software environment in the form of the Reps on The Move System, training for staff on how to use the new system, as well as a description of the server side of the system and what other technical support will be provided after installation.

Ardortech laid out this conversion plan for the integration of the Reps On The Move system into the Xco work environment. Currently at Xco, an excel spreadsheet is used by each sales rep to track individual sales and client visits.

A major advantage of the Reps On The Move system is that you can track your completed tasks and milestones as well as record your meeting with a client in-app while at the meeting. This eliminates the process of writing down meeting notes, use excel spreadsheet etc. after each meeting, which the sales rep might forget.

Managers will also benefit off the system as they can set tasks and milestones for reps and receive reports on their completion.

4.2.2 Purpose of the Conversion Plan

Ardortech aims to implement the system swiftly and with minimal interruption on the schedules and workflows of the staff at Xco. The purpose of the conversion plan is to effortlessly transition from the old system to the new Reps On The Move system. Within the transition process we aim to educate staff on how the system works by the means of training courses which will be held. The transition process will be explained in detail in the outline of the conversion plan.

4.2.3 Outline of conversion plan for the implementation of the Reps On The Move system

A rapid, abrupt switchover to the new system will not take place when in the transitioning process. The new system will most definitely replace the old system on a specific date. But before that can take place, the users must transfer their clients, client contacts etc. to the new system by creating them and adding them to the database.

A parallel conversion plan would seem to be the most optimal for the situation. With the parallel conversion plan both systems are run concurrently for the transition period, the old system would not be discarded instantly but still be in use for a while. This gives the staff time to transfer their clients etc. to the new system from the old.

After the staff have moved over their details from the old system it will be put out of use as the Reps On The Move system will take its place.

4.2.4 Detailed Conversion Resource Analysis

4.2.4.1 Requirements

The users of the system need the following hardware/software/drivers for installation and training to take place (as recommended in the hardware and software requirements).

Management Side

- A personal computer with Windows 10 Enterprise or Mac OS Sierra.
- Google Chrome browser v67 or later installed.
- Javascript enabled in Google Chrome.
- Adobe Acrobat DC v16.12.13 or later to view reports.
- A reliable internet connection (1-10MB/s).

Mobile Side

- A cell phone or tablet running Android 8.1 Oreo API 27 or later.
- Google Play store v10.8 or later.
- Google Chrome browser v67 or later installed.
- Javascript enabled in Google Chrome.
- A reliable internet connection (3G).

4.2.4.2 Training Process

Xco has 12 sales reps and 3 managers who will use the system on a daily basis. All the staff use personal computers (to capture data on excel spreadsheet) and cell phones (to make business calls) in their daily workflow, so they can be considered as computer/cell phone literate.

The fact that they are computer/cell phone literate will take a big amount of pressure off of the trainees as they would not have to explain to the staff the basics of operating a cell phone or computer, so they can focus on the specifics of the new system and the transition phase.

The sales reps are not all at the same place at the same time, so to have a one-on-one session with each of them will be very difficult to do. Distance training by the means of instruction videos will be conducted for sales reps and one-on-one as well as group training will be done for managers in-house.

The Training for the management side will be over two days (15 hours and 30 minutes) whilst the instructional videos will always be available for the mobile side and remote assistance will be available for the mobile side for two weeks after implementation.

4.2.4.3 Detailed Training Plan

4.2.4.3.1 Management Training

Day 1

2 hours - Management side explained

- The functions of the management side of the system is explained to all the managers so that they have a basic understanding of how the system works.

1 hour - Hardware/software check

- Trainers make sure the managers' hardware meet the minimum requirements and install software where necessary.

1 hour - Manager registration and login explained

- Trainers explain to managers how the registration process works and helps managers to register for the system and log in.

3 hours - Demonstrations on essential features and functions

- Trainers will walk through the system with the managers and add test data to the database on essential, but not all functions.

30 minutes - Training Booking

- For the following day, managers must book a time slot for individual training to take place. In this one-on-one training the manager-specific functions within the system and system workflow will be focused on and any questions by managers will be answered. Trainers will again walk through the system with the managers and add test data to the database for specific manager functions.
- The booking form that will be used is displayed below:

(Date)					
	Trainer				
Timeslot	**Brett**	**Sam**	**John**	**Chad**	**Xanderie**
8:00-9:00					
9:00-10:00					
10:00-11:00					
11:00-12:00					
12:00-13:00					

Day 2

5 hours - One-on-one training for managers

- Trainers will run individual training with managers as booked the previous day.

3 hours - Open consultation

- Trainers will be available for a period of three hours should any questions arise or if more assistance is needed.

4.2.4.3.2 Mobile Training

Training for the mobile side will take place in the form of instructional videos. Videos on each part on the mobile side will be provided to sales representatives and will be available to view at all times.

Mobile side explained (video)

- The functions of the mobile side of the system is explained to all the sales reps so that they have a basic understanding of how the system works.

Hardware/software check (video)

- Minimum requirements of the mobile side are explained to the sales reps.

Sales Rep registration and Login (video)

- The registration process is explained and demonstrated to sales reps.

Demonstration on all Features (videos in parts 1-11)

All the features of the mobile side will be demonstrated in these videos from part 1-11. Each part will focus on the mobile side of the subsystem of the same number.

Remote Assistance

The Ardortech team will be available for skype calls, TeamViewer sessions, email and telephonic support for the mobile side for a period of two weeks after implementation. Sales reps can ask any questions and receive help from the trainers within this week.

4.2.5 Further Technical Support

The Ardortech team will be on technical support standby for a period of 2 months after implementation. Staff can contact the Ardortech team by email if they need help or receive a software error and we will respond swiftly. Further instructional videos can also be done on request in the two-month period.

4.2.6 Server Side

In the current system at Xco there is no database where reps and managers store or get their information, reps use individual excel spreadsheets and report back to managers.

Ardortech currently hosts the Reps On The Move database server remotely at a third-party company with a stable internet location for a yearly fee. Maintenance to the server may periodically occur as does with all servers. If any downtime occurs, the Ardortech team can be contacted by email and the matter will be investigated.

The third-party host will back-up the database to the cloud frequently and when maintenance on the servers are scheduled. This minimises the risk of data loss.

4.3 Conclusion

This section covered the conversion plan for transitioning to and implementing the Reps On The Move System. The methods discussed must serve as a guide for the business to transition from the old excel spreadsheet system to the new Reps On The Move system. Topics such as training employees to use the system and installation of the system are elaborated on.

5 Project related issues

5.1 Introduction

No project can run absolutely flawlessly, problems will always emerge and have to be solved in a timely matter as not to influence the project in a negative way. This section contains all the issues that we have encountered as a team during the run of the project. This can range from work environment issues to technical issues.

5.2 Project related issues

Problem name	Description
Hosting the database	We had a problem of how we were going to link the database for the mobile system as well as the management system so that changes on one side of the system reflects on both systems. We thought of having two separate databases and syncing the data and changes between the two databases, but we could not figure out a way of doing that. Our final option was to host a single database externally and connect to it over the internet. This also saves up space on the users system that the application is running on.
Server Downtime	During the development, testing and troubleshooting of our system on both platforms, our externally hosted database would go offline every now and then. This meant that we were not able to develop and test our system during the server down times. We just hope that the server is not down during the marking session as we have no way of hosting a local instance of the database without changing the connection string in our source code. The hosting service also does not warn us on maintenance or down time so it currently happens at random occasions.
Coding Difficulties	We encountered a lot of difficulty developing the mobile application for our system as none of the team members have ever developed or worked with mobile applications or android. One of our team members have previously worked with java that is used in android development and that helped a bit, but the learning curve was still steep and the most of our time was spent on fixing compilation errors rather than actual development of the system.
Staying on Schedule	We had some difficulty to stay within schedule. We found it really difficult to keep to the schedule that we set up for our deliverable because of semester tests and other assignments during the deliverable. The coding difficulties mentioned above also influenced our schedule as we spent more time on fixing compilation errors and getting basic functionality working than actually coding the system.
Geographical dispersion	In previous deliverables we had trouble getting together as a team in the vacation because of geographical dispersion. We had the option to make use of the collaboration labs that the Informatics department made available to us but the labs were often full and noisy. Our individual schedules also made it

Problem name	Description
	difficult to always be on campus together so we often came together at one of the group member's house to sit and work together on the project.
Printing the documentation	The printing of the documentation can either go very well or very bad. (Printers can smell fear). Whenever you need to quickly print something to add in the documentation or to print something that was fixed, there will always be something wrong with the printers that we used. Either a paper jam, not enough toner or simply the computer does not pick up the printer on the network. Printing something is just never as simple as it sounds and as it should be.
Collaboration on the documentation	We explored the use of google documents to aid in the collaboration for our document, but google documents seems to start lagging quite badly when the document reaches about 75 pages. We then started using Microsoft office 365 that we got with our student accounts through the university and it works a lot better than google documents. But it is still far from perfect. If one team member works at the top of the document and crates a new page, the system would have merge errors that are sometimes difficult to resolve and all editors had to disconnect and stop working so that one team member can resolve the merge error.

5.3 Conclusion

Discussed was the issues that we encountered with the project. One of the most prominent which was sudden server downtime when we were developing, testing and troubleshooting the program. The server is hosted by a third party which can put us back because there is no certainty when it will be back up again.

6 Overall Conclusion

In this deliverable the consolidation of all the previous documentation took place. The consolidation included the Project Proposal (Deliverable 1), the Functional Specification (Deliverable 2), the System Prototype (Deliverable 3), the Technical Specification (Deliverable 4) and the Internally Tested System (Deliverable 5).

Also covered in this deliverable is: the system requirements, system documentation, validation, a CRUD matrix, a conversion plan, project related issues, an updated complexity matrix and the sign off by the client and the team.

7 Client Sign-Off

In conclusion of Deliverable 6, hereby the signature of the client in agreement to the contents of this document.

I, _________________________, have read, understood and agreed to the contents of the above document, Deliverable 6 on this ______ day of _______________________.

____

Hugo Maree
(Client)

8 Team Sign-Off

In conclusion of Deliverable 6: System Documentation hereby the signatures of each of the group members in Group 12, in agreement to the contents of this document.

I, ________________________, have read, understood and agreed to the contents of the above document, Deliverable 6: System Documentation, on this ______ day of ______________________.

____

John Loxton
(Group Leader)

I, ________________________, have read, understood and agreed to the contents of the above document, Deliverable 6: System Documentation, on this ______ day of ______________________.

____

Sam Jonker
(Group Member)

I, ________________________, have read, understood and agreed to the contents of the above document, Deliverable 6: System Documentation, on this _____ day of ______________________.

____

Chad Fox
(Group Member)

I, ________________________, have read, understood and agreed to the contents of the above document, Deliverable 6: System Documentation, on this _____ day of ______________________.

____

Xanderie Jorna
(Group Member)

I, ________________________, have read, understood and agreed to the contents of the above document, Deliverable 6: System Documentation, on this _____ day of ______________________.

____

Brett Felton
(Group Member)

9 Appendix I: Data Model (ERD)

9.1 Introduction

This section consists of the data model (ERD).The physical data model provides the layout of a fully attributed physical data mode in the form of an entity relationship diagram (in 3rd normal form) of the Reps On The Move System. The entity relationship diagram was constructed in IBM System Architect and is colour coded to highlight different types of entities and for easier readability.

9.2 Conclusion

The data model (ERD) was discussed in this section. It comprised of the fully attributed, colour coded, 3rd normal form entity relationship diagram which was constructed in IBM System Architect.

10 Appendix II : CRUD Matrix

10.1 Introduction

This section consists of the CRUD Matrix. The CRUD Matrix provides a reconciliation of all the database entities and their various attributes with the use cases they are used in to perform CRUD actions. The CRUD Matrix is constructed as a tabular matrix with entities, attributes and all the use cases.

10.2 Conclusion

This section discussed the CRUD Matrix, which was used to reconcile the database entities and their various attributes with the use cases they are used in to perform CRUD actions.