Sri Lanka Institute of Information Technology.

Software Process Modelling-Assignment No-01

MLB_09.02_6

Online Land Sales System.

PROJECT ID	MLB_09.02_6
CASE STUDY NAME	Online Land Sales System.
CAMPUS/CENTER	Malabe.

Group Details:

	Student Registration Number	Student Name
1	IT21177514	M.R. Tharin Ransika.
2	IT21178504	K.V.S. Dinuri Dasanya.
3	IT21179976	D.H.K. Hasini Ishara.
4	IT21178740	K.K.L. Rathnasiri
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We hereby certify,

☑   The attached is our own work and no further changes will be made.

☑   We have contributed in this assignment to the best of our ability.
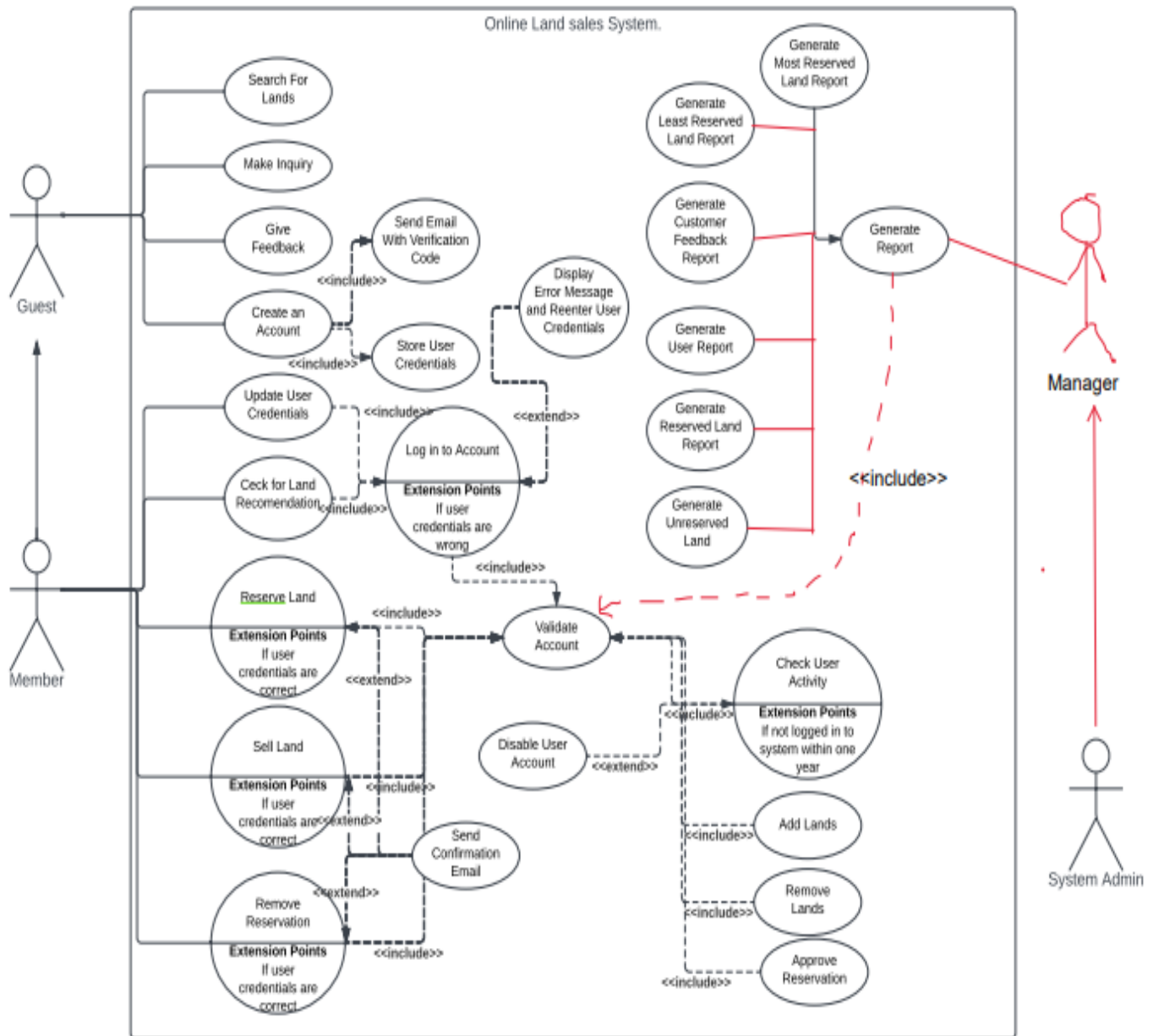
And we understand,

☑   We may be subject to student discipline processes in the event of an act of academic misconduct by us including an act of plagiarism or cheating.

Group Details:

	Student Name	Student Registration Number	Date	Signature
1	M.R. Tharin Ransika	IT21177514	2022/03/15	Ransika
2	D.H.K. Hasini Ishara	IT21179976	2022/03/15	Asham
3	K.V.S. Dinuri Dasanya	IT21178504	15/03/2022	Dasanya
4	K. Kavisha Lakmini Rathnasiri	IT21178740	15/03/2022	Kavisha
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01. Use Case Diagram.

Important:

01. We included a clear Use Case Diagram in uploaded file.
02. We used **Lucidchart** Online tool to draw our use case diagram. But, some features (**Generalization/Inheritance of Use Cases etc.**) are not available in free version. We were deeply embarrassed by that situation. Therefore we used **Adobe Acrobat Reader DC** Software to complete use case diagram. We kindly request you to consider this situation.

02. Use Case Scenarios.

02.1. Reserve Land.

Student ID: IT21177514 **Student Name:** K.K.L. Rathnasiri.

Use Case ID:	001	
Use case Name:	Reserve Land.	
Pre-Conditions:	1.User should have logged into the system. 2.User should have created account. 3.User should have registered password and e mail address.	
Post-Conditions:	User has a reserved land and a received confirmation e mail.	
Primary Actor:	User.	
Main Scenario	**Steps**	**Action**
	01	The system displays the page and the categorized lands according to the province.
	02	User clicks on his or her preferred province button.
	03	The system displays the available lands in user's preferred province.
	04	The user checks features, photos, locations and other details of the lands the system has available.
	05	The user chooses a land and clicks on the "reserve the land" button.
	06	The system displays relevant form to reserve a land.
	07	User enters relevant personal information of his or her.
	08	System saves entered details.
	09	System displays a message for enter e mail address and password.
	10	User enteres his or her e mail address and the password.
	11	System validates the user e mail and password.
	12	System displays a message for confirm reservation.
	13	User clicks on "confirm" button.

	14	System sends an confirmation e mail to user.
Extensions	**Step**	**Branching Action**
	11.1	System identifies user has entered a wrong password or an e mail address.
	11.2	System identifies user has entered a wrong password or an e mail address.
	12.1	User clicks on "not confirm" button.
	12.2	System exits from the page.

02.2 Remove Reservation.

Student ID: IT21177514   **Student Name:** M.R Tharin Ransika.

Use Case ID:	002	
Use case Name:	Remove reservation.	
Pre-Conditions:	1.User should have logged into the system. 2.User should have created account. (User should have registered password and registered e-mail address in system.)	
Post-Conditions:	User has removed reservation and received confirmation e-mail from the system about removing reservation.	
Primary Actor:	Registered Customer.	
Main Scenario	**Steps**	**Action**
	01	User clicks on "My Account" button in home page.
	02	System displays portal for enter e-mail address and password.
	03	User enters his/her e-mail address, password and clicks on "Sign-In" button.

	04	System validates the user. (By using User's e-mail address and password.)
	05	System displays user's account page.
	06	User clicks on "My Reservations" button.
	07	System displays "My Reservations" page. (This page contains details of Land Number, Reserved Date, Reserved Time, Features and photos of Reserved Land.)
	08	User types the cause for removing reservation in "Cause for Removing Reservation" box.
	09	System saves cause for removing reservation.
	10	User clicks on "Remove Reservation" button.
	11	System pops up message for confirm the removing reservation.
	12	User clicks on "Confirm" button.
	13	System sends a confirmation e-mail to user about removing reservation.
	14	System displays message "Successfully Removed Reservation".
Extensions	**Step**	**Branching Action**
	04.1	System identifies user has entered invalid e-mail address or invalid password.
	04.2	System displays error message "Invalid e-mail address or password. Enter correct e-mail address and password again" and "Forgot Password" Option.

	10.1	System identifies user has not entered cause for removing reservation.
	10.2	System displays message "Enter cause for removing reservation".
	12.1	User clicks on "Cannot Confirm" button.
	12.2	System exists from "My Reservations" page.

02.3 Add Lands.

Student ID: IT21178504   **Student Name:** K.V.S.D. Dasanya.

Use Case ID:	003	
Use case Name:	Add Lands.	
Pre-Conditions:	User receives a request to add land.	
Post-Conditions:	User has added the land to the system and receives confirmation.	
Primary Actor:	System Admin.	
Main Scenario	Steps	Action
	01	User chooses to add a land by clicking "Add New Land" button.
	02	System asks to enter login details.
	03	User enters username and password.
	04	System validates the user's username and password.
	05	System displays "ADD LANDS" button.
	06	User clicks "Add Lands" button.
	07	System displays add lands page.

	08	User uploads land images.
	09	User enters land details.
	10	User enters the location link.
	11	User click on the submit button.
	12	System shows a sample page with the details.
	13	System asks to confirm the details.
	14	User clicks on the confirm button.
	15	System displays a message saying land added successfully.
Extensions	**Step**	**Branching Action**
	04.1	System notifies login details are invalid. System asks user to re-enter details.
	08.1	User enters images in the wrong format. System asks the user to re-enter images.
	09.1	System detects incomplete fields. System asks to complete the records.
	09.2	System detects details in the wrong format. System gives an error message.
	10.1	User doesn't add a location link. System asks the user to enter the link.
	11.1	User clicks on the reset button. System exits.
	14.1	User clicks "Edit Details" button. Systems directs the user to edit the details.
	14.2	User clicks "Exit process" button. System exits.

02.4 Sell Land.

    Student ID: IT21179976.   **Student Name:** D.H.K. Hasini Ishara.

Use Case ID:	004	
Use case Name:	Sell Land.	
Pre-Conditions:	User has logged into the system and created a account (user should has a valid registered password and email address.)	
Post-Conditions:	User has uploaded the details and the photos about the land user has received confirmation email.	
Primary Actor:	User.	
Main Scenario	Steps	Action
	01	System displays relevant form to sell lands.
	02	Customer enters land details, uploads some photos of the land and enters personal details. (Name, Address, NIC etc.)
	03	System captures entered details and photos
	04	System displays a message for enter password and email.
	05	User enters the password and email.
	06	System validates the user password and email.
	07	System displays a message for confirm sell the land.

	08	User clicks on "Confirm" button.
	09	System sends confirmation email to the customer.
Extensions	**Step**	**Branching Action**
	03.1	System identifies the user has not uploaded some details and the photos of the land.
	03.2	System displays a message for upload the photos and details of the land.
	06.1	System identifies the user has entered a wrong password or a wrong email address.
	06.2	System displays an error message and a message for enter the password and email again.
	07.1	User clicks on "Not confirm" button.
	07.2	System exits from the page.

02. Contribution to Use Case Diagram.

Student ID and Name	Section Worked	Special Contributions	Challenges Faced
IT21177514 M.R Tharin Ransika.	Write Use Case Scenario about Remove Reservation.	01.Analyzed common different land sales systems and identifies high level functionalities as well as actors of them. 02.Using identified functionalities and actors created Use Case diagram. 03. Designed final Use Case Diagram. 04.Finalized assignment report.	01. Managing the process well as a team leader. 02.Some members lack knowledge about the Use Case diagrams. 03.Find software to design Use Case diagram. 04.Managing other educational works with this assignment.
IT21178504 K.V.S.D. Dasanya.	Write Use case Scenario about Add Lands.	Contributed to correction of mistakes in Use Case Diagram.	01. Found difficult to identify the main use cases. 02. Found it hard to match extensions to the main scenario.

IT21179976 D.H.K. Hasini Ishara.	Write Use case Scenario about Sell Land.	Contributed to correction of mistakes in Use Case Diagram.	Not having enough time for group members to work together as a group.
IT21178740 K.K.L Rathnasiri.	Write Use case Scenario about Reserve Land.	Contributed to correction of mistakes in Use Case Diagram.	Managing time.