

CSE-5324
**** Software Engineering ****

GROUP PROJECT:- “Mav\$hop”
GROUP NAME:- “Smartinis” (Team-2)



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PROJECT DESCRIPTION

- **App Title:- MAV\$HOP**

- **App Description:-** We plan to create an app which will facilitate students to sell or buy items when moving in/moving out of the campus.

Problems:- When students come to stay on-campus, they need necessary items like a table, chairs, microwave etc. Similarly, when students move out of the campus they sell the items which are unnecessary to them.

Solution:- It would be easy for the students to perform buying and selling items through an app. Also, students will get the items at cheap rates and this app will be within UTA students only.

- a. **Function 1:-**

- **User-Registration** -User will register with student email address and fill out all the necessary details required. The necessary details will include First-Name, Last-Name, Address, Phone number, valid UTA email address, password, confirm password.
- **User-Login** -User will be redirected to the login page once he registers. He will login with email address and password. Reset password option is provided through the email link. We do not need admin login.

- b. **Function 2:-**

- **Categorize Items** -User will view the items divided into categories. All the items will be organized into divisions like furniture, electronic devices, kitchen utensils, books, organizers, miscellaneous which will help for easy access.

- c. **Function 3:-**

- **Item Details** -User who wishes to sell an item will upload photos of the item, write some description about product (which will be restricted to 180 characters) (required) , enter the price(required), list the product in proper category(required) and provide phone number, name (required) on which he can be contacted on. User will also have negotiable radio button.

- d. **Function 4:-**

- **Buy an item** -Once the user chooses the item, he will be provided with two options. 1)Click on buy now button where he will be directed to payment option or 2) Click on “contact seller” button where he will be provided with email address of the seller. The seller should mark the item as sold.
- **Payment** -User enters the details of credit/debit card.

REQUIREMENTS

Req ID	Req Statement	Line Reference
R1	The app shall allow the user to choose between login or register.	Derived
R2	If the user wants to register, the app shall allow the user to enter details necessary for the registration.	9,10,11
R3	If the user selects to login, the app shall allow the users to login through authentication.	12
R4	The app shall provide a reset password function for registered users.	13
R5	The app shall provide the user with list of categories.	15-17
R6	The app shall allow the user to select an item from the list.	Derived
R7	The app shall allow the user to buy the item which he has selected or contact the seller for more details.	24,25
R8	The app shall allow the user to enter payment details if willing to buy the item.	27
R9	The app should check the card details provided by user and process the payment.	Derived
R10	The app shall allow the user to sell the item after entering contact details, required information and uploading appropriate images of the item.	19-22
R11	The app shall allow user to edit his personal details in the profile section.	Derived
R12	The app shall provide user with his purchase and selling history.	Derived
R13	The app shall provide user to logout from application.	Derived

USE CASE LIST

Use Cases	Use Case Name
UC1	Register
UC2	Login
UC3	Select Item Category
UC3.1	View and Select the item to purchase from the listing.
UC3.1.1	View Seller Information
UC3.1.2	Enter Payment Information and Pay
UC4	Enter Product Details
UC5	View User Profile
UC5.1	Edit User Details
UC5.2	View Purchase History
UC5.3	View and Manage Selling
UC5.3.1	Delete Item from Listings
UC5.4	Logout
UC6	Reset Forgotten Password

HIGH LEVEL USE CASE

•UC 1: Register

- TUCBW the user selects the 'Register' button on the App.
- TUCEW user is redirected to the 'Login' page and is prompted to login.

•UC 2: Login

- TUCBW user enters their credentials and clicks on 'Sign in' button.
- TUCEW user is redirected to the 'Home' page.

•UC 3: Select Item Category

- TUCBW buyer selects a product category in the 'Home' page.
- TUCEW buyer is redirected to the page that contains product listings from the selected category.

•UC 3.1: View and Select the item to purchase from the listing

- TUCBW buyer clicks on the product of their interest.
- TUCEW buyer is redirected to 'Product Information' page of the selected product.

•UC 3.1.1: View Seller Information

- TUCBW buyer clicks on 'Contact Seller' button on the 'Product Information' page.
- TUCEW buyer completes viewing the seller information and sees the 'Product Information' page.

•UC 3.1.2: Enter Payment Information and Pay

- TUCBW buyer clicks on the 'Buy Now' button on the 'Product Information' page.
- TUCEW buyer clicks on 'Submit Payment' and sees 'Home' page.

•UC 4: Enter Product Details

- TUCBW seller clicks on the 'Post' button on the 'Home' page.
- TUCEW seller clicks on the 'Finish' button and sees the 'Home' page.

- **UC 5: View User Profile**

- TUCBW user clicks on the 'Profile' button on the 'Home' page.
- TUCEW user completes viewing personal information and may visit any otherpage such as 'Home'.

- **UC 5.1: Edit User Details**

- TUCBW user clicks on the 'edit' button provided next to the 'Phone Number' and 'Address' fields on the 'Profile' page.
- TUCEW user clicks on 'Done' and sees the 'Profile' page.

- **UC 5.2: View Purchase History**

- TUCBW user clicks on 'Purchase History' button in the 'Profile' page.
- TUCEW user completes viewing and sees 'Profile' page.

- **UC 5.3: View and Manage Selling**

- TUCBW user clicks on 'Selling' button in the 'Profile' page.
- TUCEW user completes viewing and sees the 'Profile' page.

- **UC 5.3.1: Delete Item from Listings**

- TUCBW user clicks on the 'Delete' icon provided next to a product listed in the 'Selling' page.
- TUCEW user confirms the deletion of the listing and sees the 'Selling' page.

- **UC 5.4: Logout**

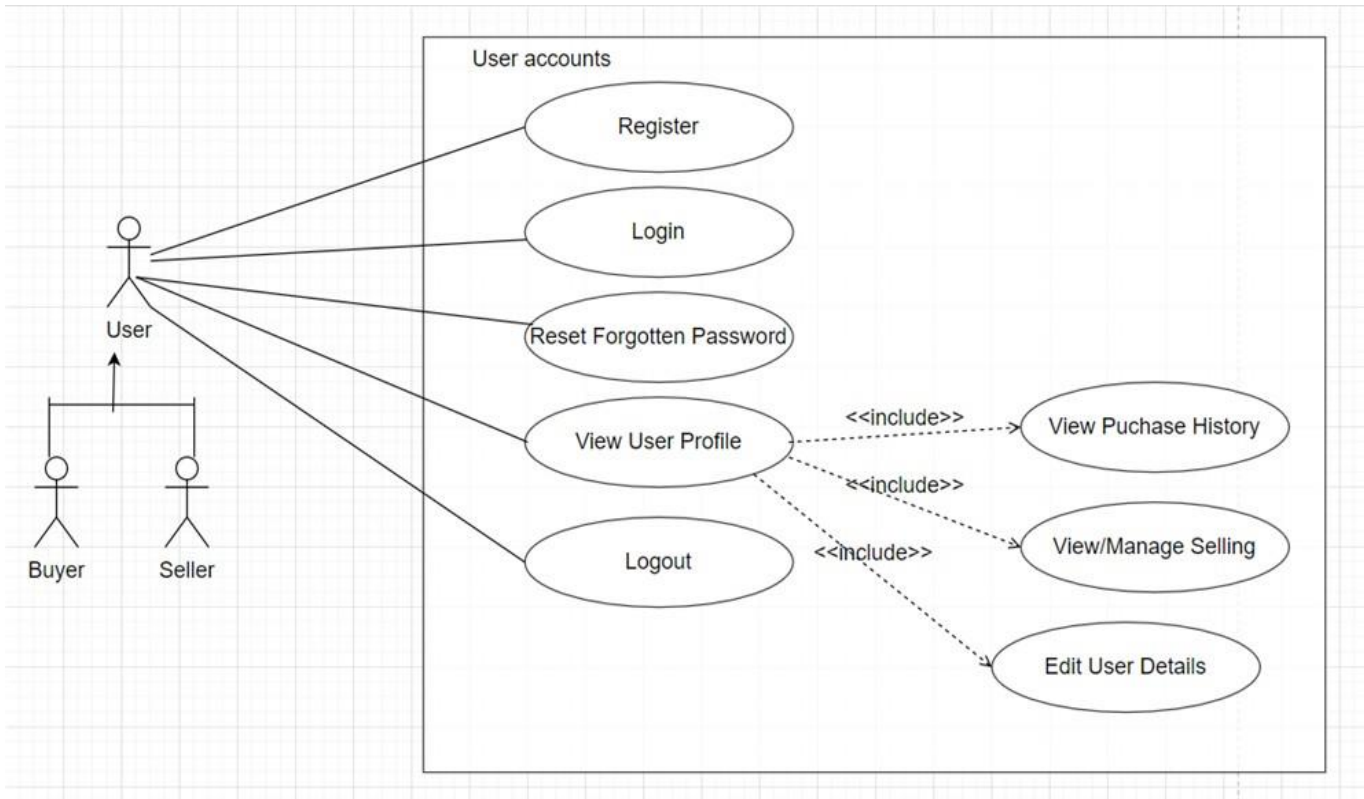
- TUCBW user clicks on 'Logout' in the 'Profile' page.
- TUCEW user is redirected to the 'Login' page.

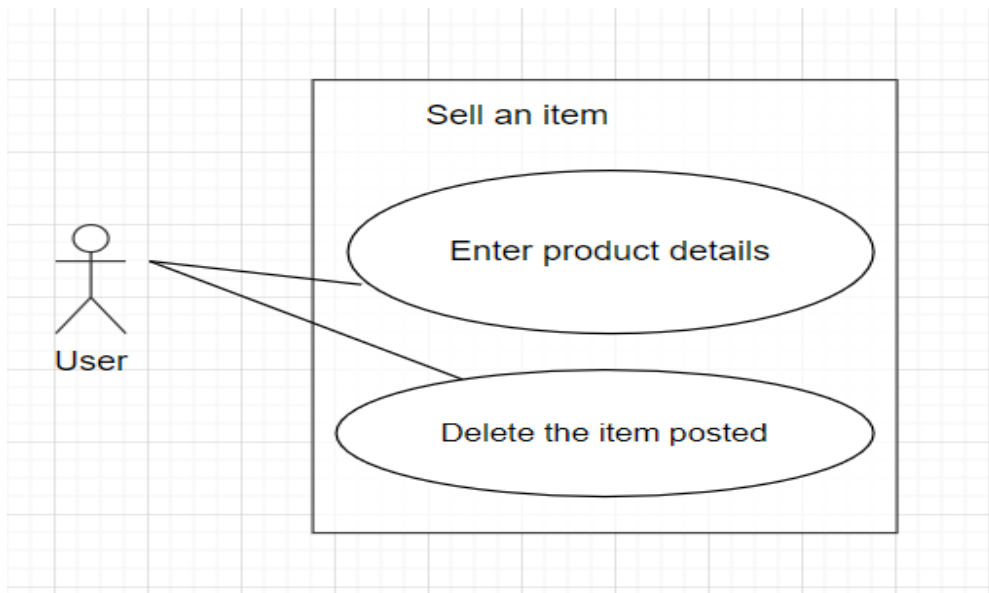
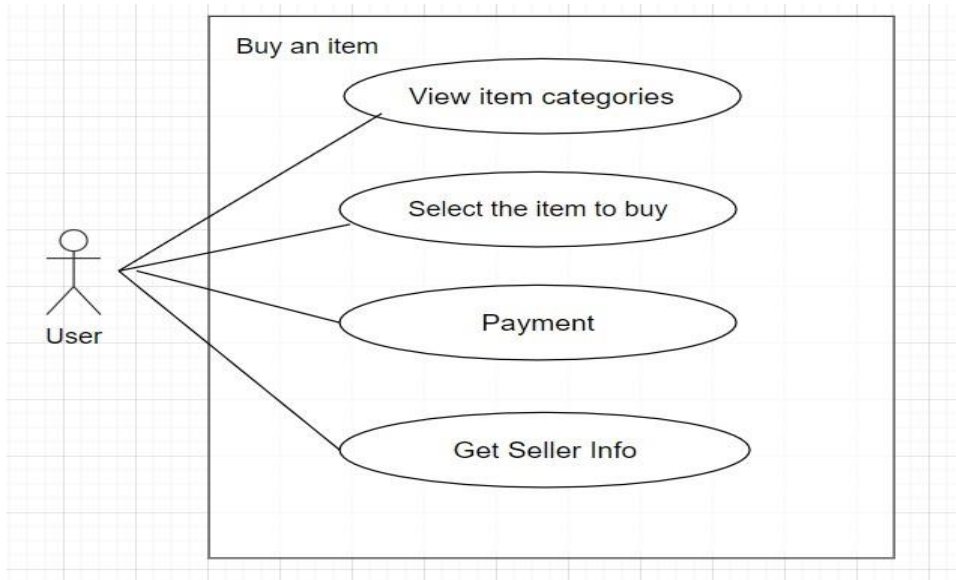
- **UC 6: Reset Forgotten Password**

- TUCBW the user clicks on 'Forgot Password' provided on 'Login' page.
- TUCEW user clicks on 'Reset Password' and is redirected to 'Login' screen.

USE CASE DIAGRAM

In this use case diagram, the user acts as a buyer when he/she prefers to buy items or, the user is also the seller if they wish to sell items. The user has access to register, login, reset the password, view their profile, and in the profile, they can buy, sell items, and can edit their details. Finally, the user can logout if they no longer prefer to be logged in.





REQUIREMENTS TO USE CASE TRACEABILITY MATRIX

	Priority Weight	UC1	UC2	UC3	UC3 .1	UC3 .1.1	UC3 .1.2	UC4	UC5	UC5 .1	UC5 .2	UC5 .3	UC5 .4	UC5 .4.1	UC5 .5	UC6
R1	1	X	X													
R2	1	X														
R3	2		X													
R4	2															X
R5	3			X												
R6	3				X											
R7	3					X										
R8	3						X									
R9	4						X									
R10	3							X	X							
R11	5									X	X					
R12	4											X	X	X		
R13	5														X	
	SCORE	2	3	3	3	3	7	3	3	5	5	4	4	4	5	2

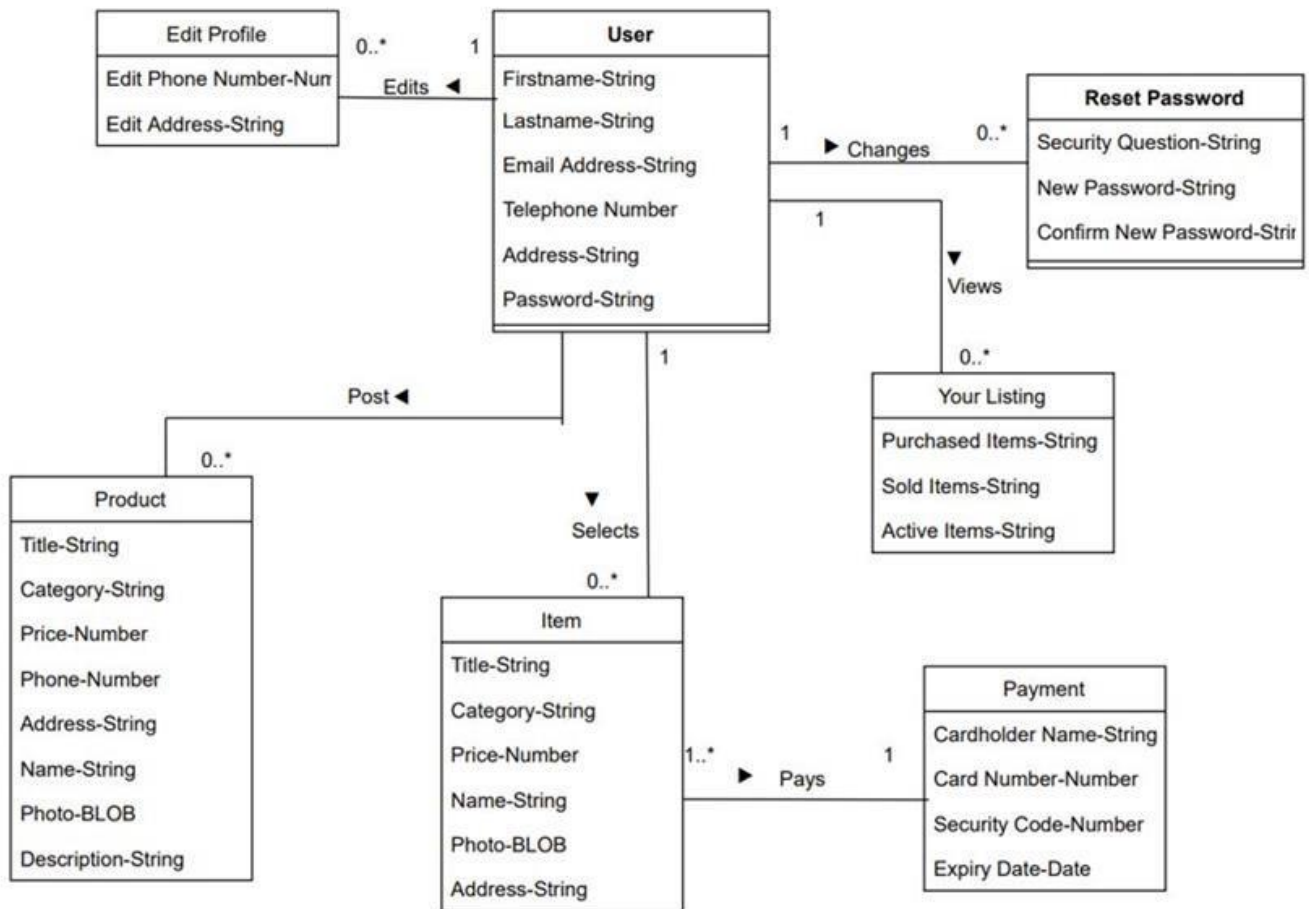
NOTE: Priority weight 1 is the highest priority

INCREMENT MATRIX

Use Case`	Priority	Effort (Person - weeks)	Depends On	Iteration 1 (03/10/2021)	Iteration 2 (04/05/2021)	Iteration3 (04/28/2021)
UC1	2	3	NONE	3		
UC2	2	3	UC1	3		
UC3	2	2	UC2		2	
UC3.1	3	5	UC3		3	2
UC3.1.1	3	1	UC3.1		1	
UC3.1.2	6	2	UC3.1.1		1	1
UC4	2	4	UC2		2	2
UC5	4	6	UC2		3	3
UC5.1	4	1	UC5			1
UC5.2	4	2	UC5			2
UC5.3	4	2	UC5		1	
UC5.3.1	4	1	UC5		1	
UC5.4	5	2	UC5			1
UC6	4	2	NONE			2
Total Effort		36		8	14	14
1 PW = 5 Hrs				40	70	70

TOTAL PW = 180

DOMAIN MODEL DIAGRAM



END OF THE DOCUMENT