ONLINE SHOPPING SYSTEM

UseCase Analysis

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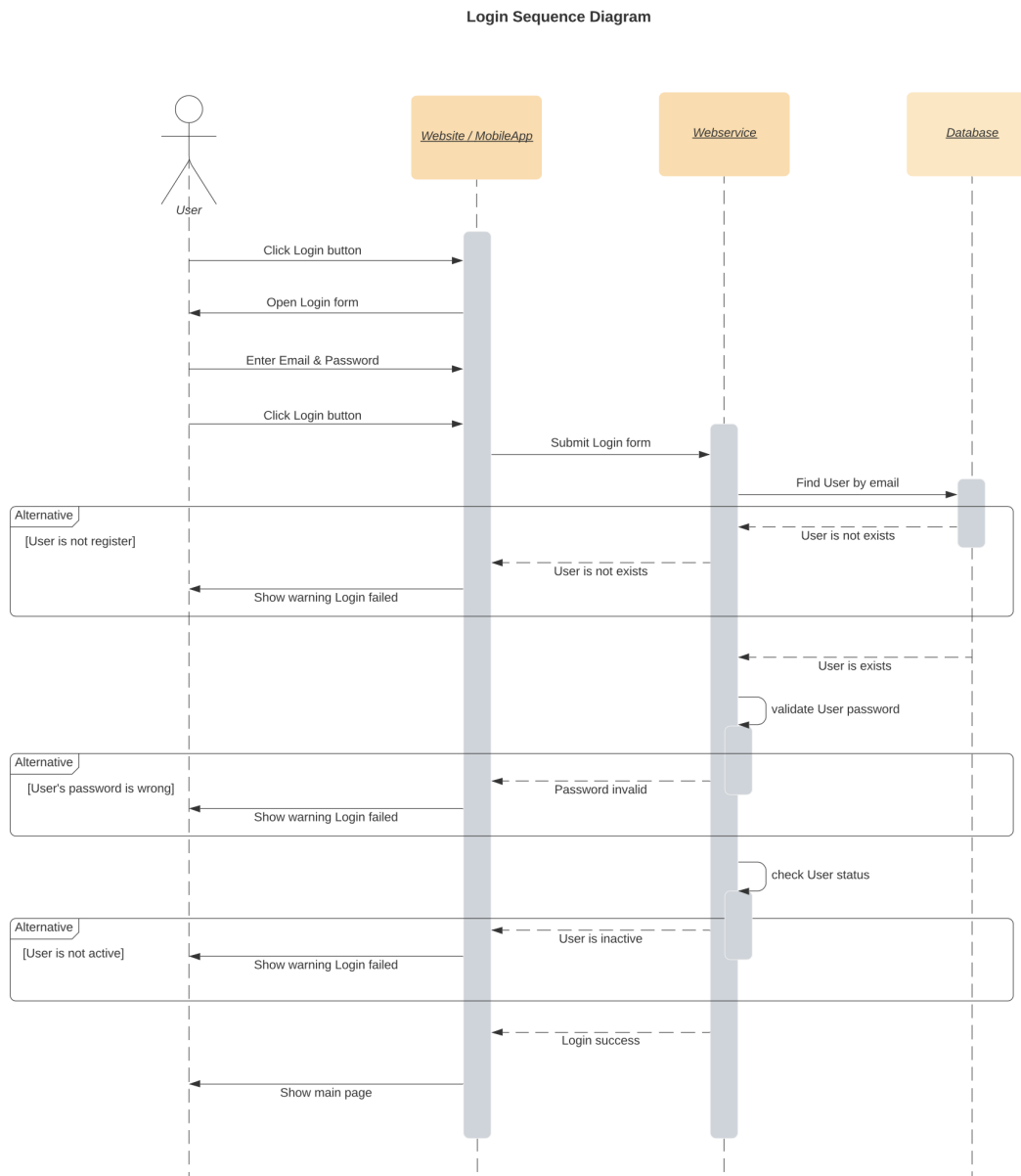Thai Binh Duong Nguyen - 612700

Github repository:

https://github.com/xii1/se-project

I. Use case 1

1. Use case description

Use case number: 1	
Name: Login	
Brief description: A user logs in to the system to access the functionality of the system	
Actors: Guest, Buyer, Moderator, Admin	
Preconditions	
- The user must access the website/mobile application	
Flows of Events	

Step	User Actions	System Actions
1	Enter username and password	Validate exists username
2	Click to Login button	Validate password

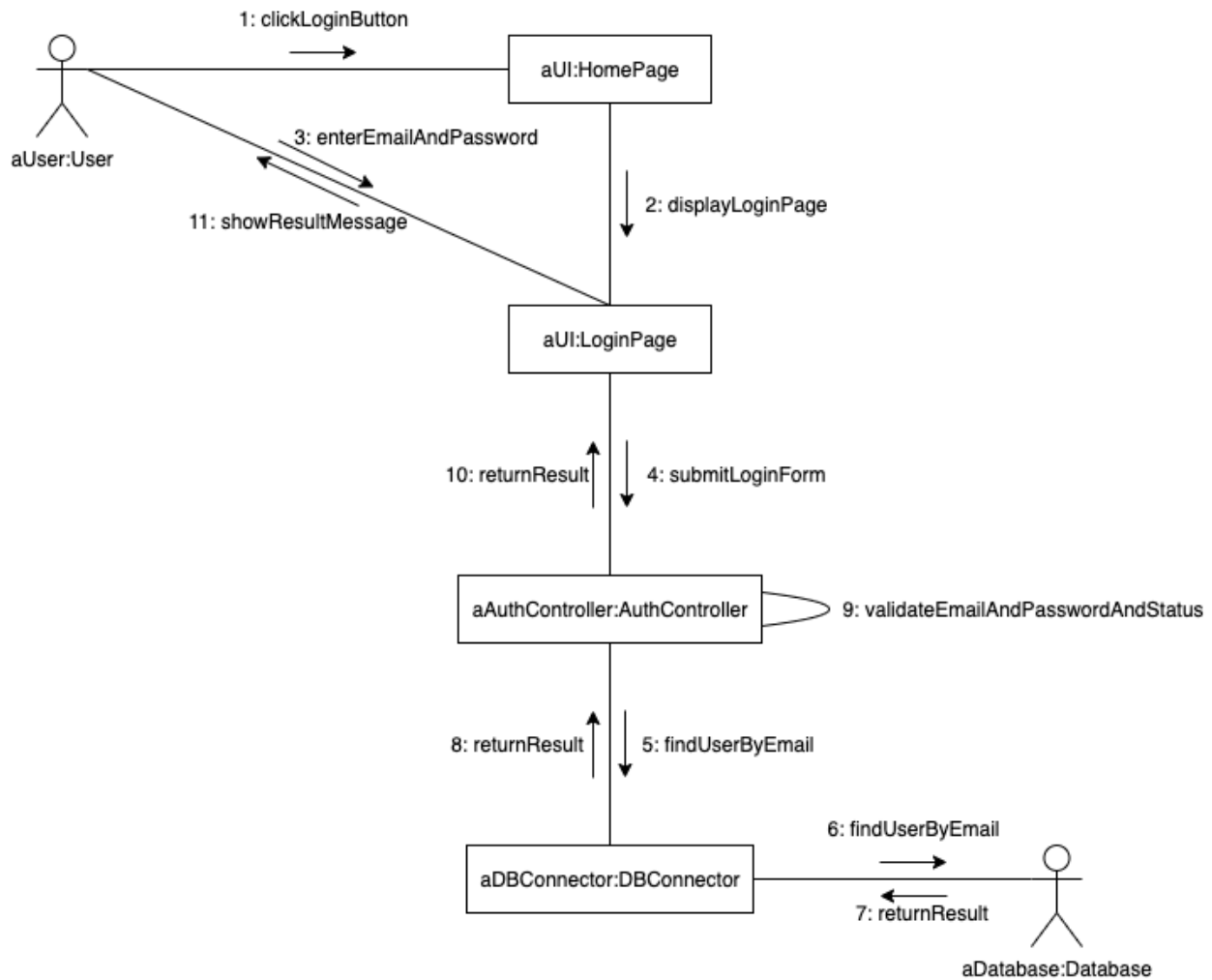| **Postconditions** |
|---|
| - After a successful login, the page is redirected to the main page with that a successful message is shown
- After a failed login, a failed message is shown. The user can try again |
| **Business Rules** |

2. <u>Analysis classes</u>
- LoginForm <<boundary>>
- AuthController <<control>>
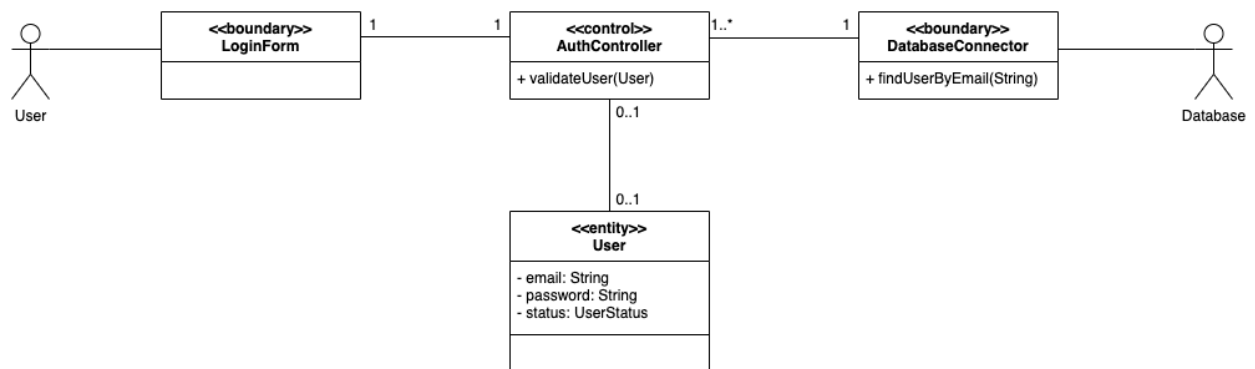- DatabaseConnector <<boundary>>
- User <<entity>>
3. <u>Sequence diagram</u>

Login Sequence Diagram

User

Website / MobileApp

Webservice

Database

Click Login button

Open Login form

Enter Email & Password

Click Login button

Submit Login form

Find User by email

Alternative

[User is not register]

User is not exists

User is not exists

Show warning Login failed

User is exists

validate User password

Alternative

[User's password is wrong]

Password invalid

Show warning Login failed

check User status

Alternative

[User is not active]

User is inactive

Show warning Login failed

Login success

Show main page

4. Collaboration diagram

5. VOPC diagram

II. Use case 2

1. <u>Use case description</u>

Use case number: 7	
Name: Register an account	
Brief description: A method for guests to register their accounts on the system	
Actors Guest	
Preconditions	
Flows of Events	

Step	User Actions	System Actions
1	Guest calls the create account command	The system displays the buyer profile form with first name, last name, email, password
2	The guest fills out the form and requests the system to save the details	The system checks if no other buyer profile with the same email exists in the database and stores the buyer profile and returns a success message. If there is an exception, the system will display a failure message. If there is a duplicate entry in the database, the system will return a message stating that a similar entry exists.

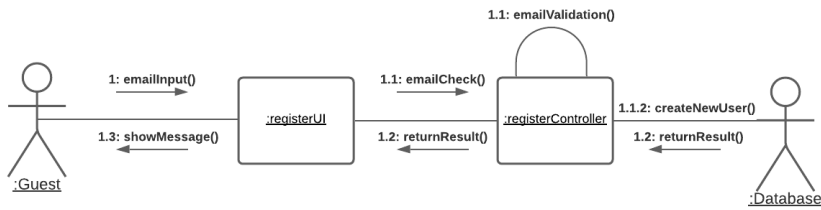| **Postconditions**		
The buyer profile is persisted in the system		
Business Rules		
No duplicate buyer profile. A unique profile is identified by email address.		

2. <u>Analysis class</u>
- RegisterUI <<boundary>>
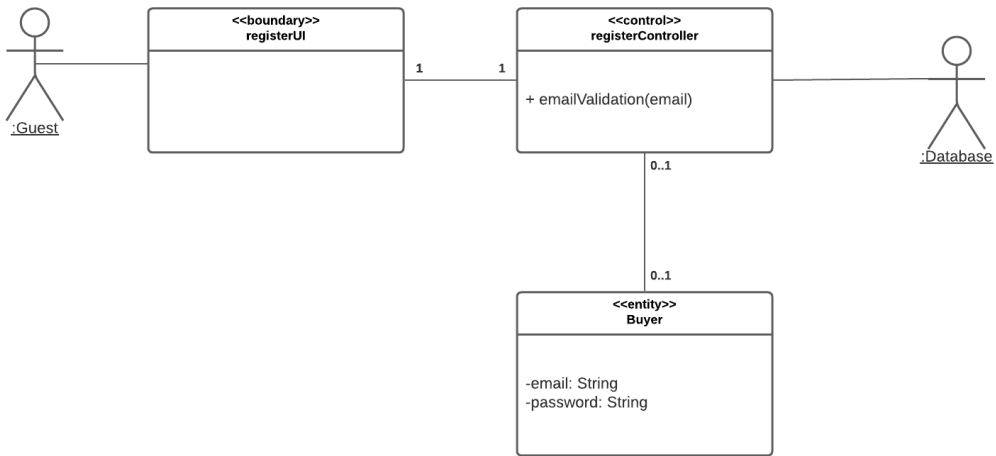- RegisterController <<control>>
- Database <<boundary>>
3. <u>Sequence diagram</u>
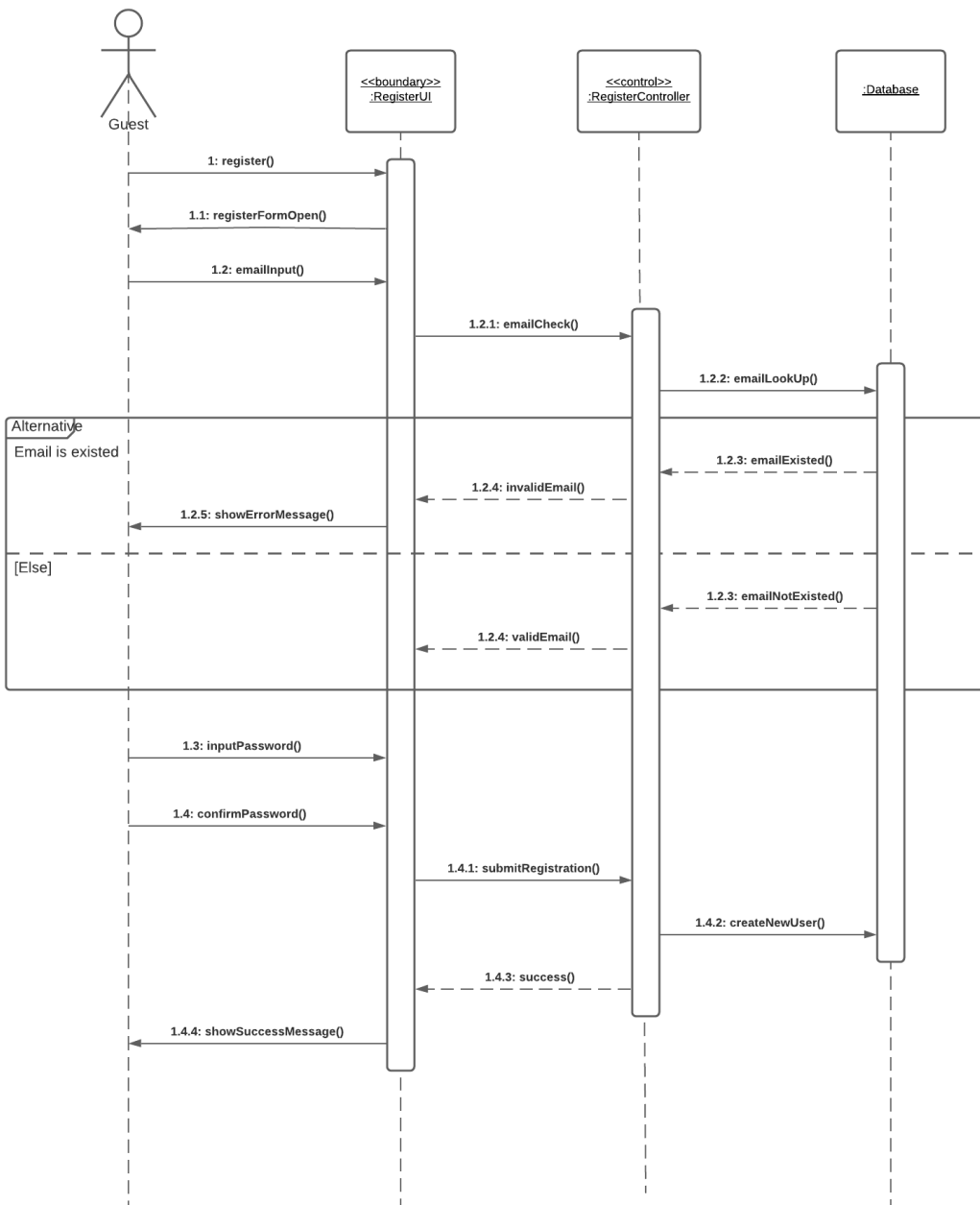
4. <u>Collaboration diagram</u>

5. VOPC diagram
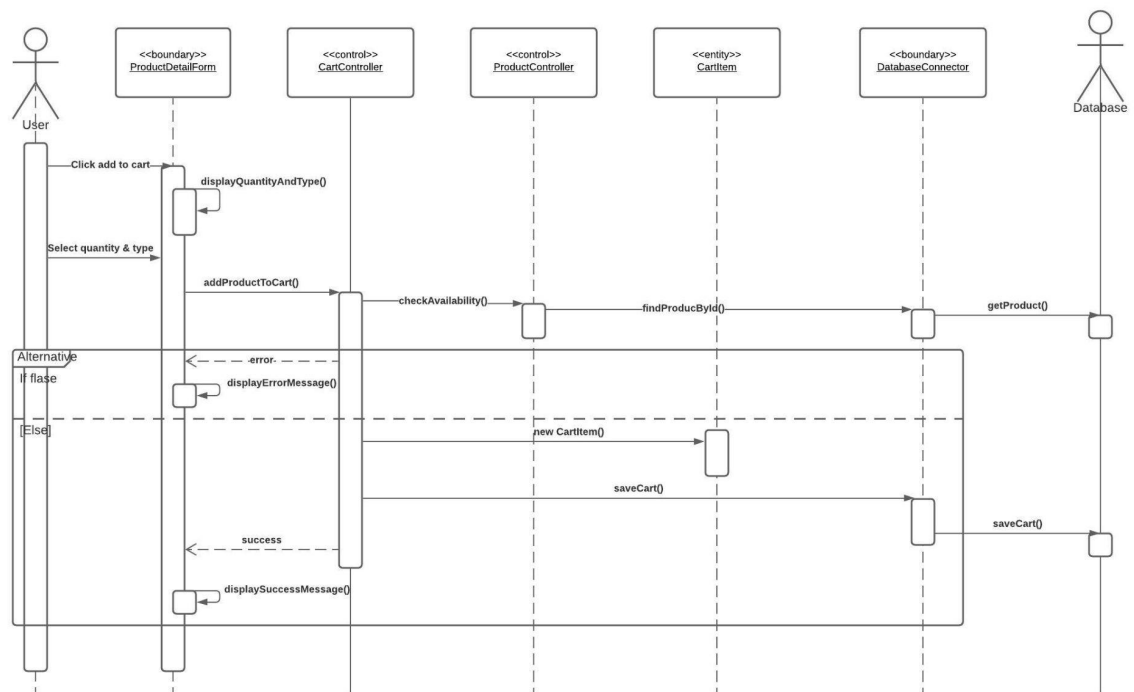

III. Use case 3

1. Use case description

Use case number: 4
Name: Add to cart
Brief description: A user add to the cart the product that they want to buy
Actors: Guest, Buyer
Preconditions
- The user must access the website/mobile application

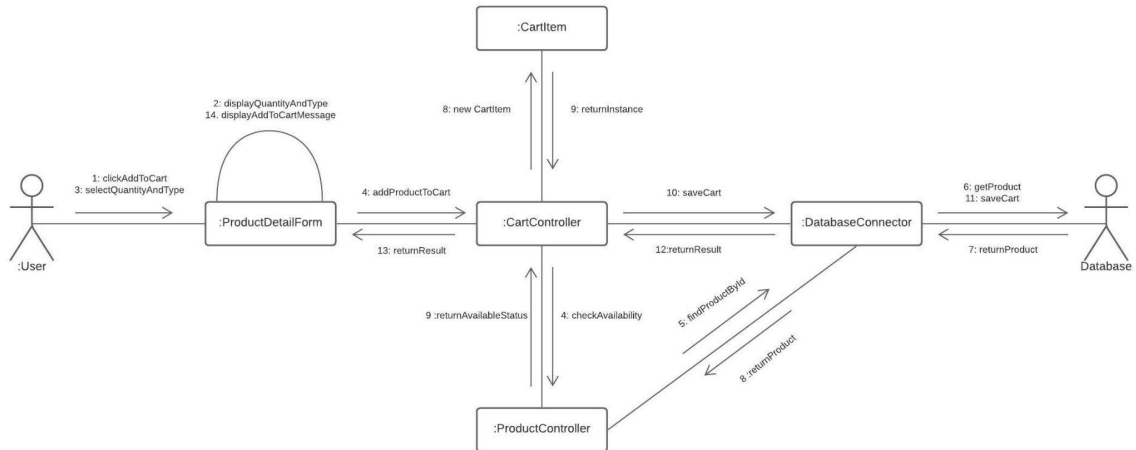|		
	- The Buyer must log in successfully. The Guest doesn't need to log in - The user must view or search products user case	
Flows of Events		
Step	**User Actions**	**System Actions**
1	Click to Add to cart button on the product	Add product item into the cart
Postconditions		
Business Rules		
	- The product must have at least one available quantity to add to the cart	

2. Analysis class
- ProductDetailForm <<boundary>>
- CartController <<control>>
- CartItem <<entity>>
- ProductController <<control>>
- DatabaseConnector <<boundary>>
3. Sequence diagram

4. Collaboration diagram

5. <u>VOPC diagram</u>