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**Group 109**

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**USCoffee  
Use-Case Specification**

**Version <1.0>**

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## Revision History

Date	Version	Description	Author
07/07/2023	1.0	First version of Use-case specification	Group 109

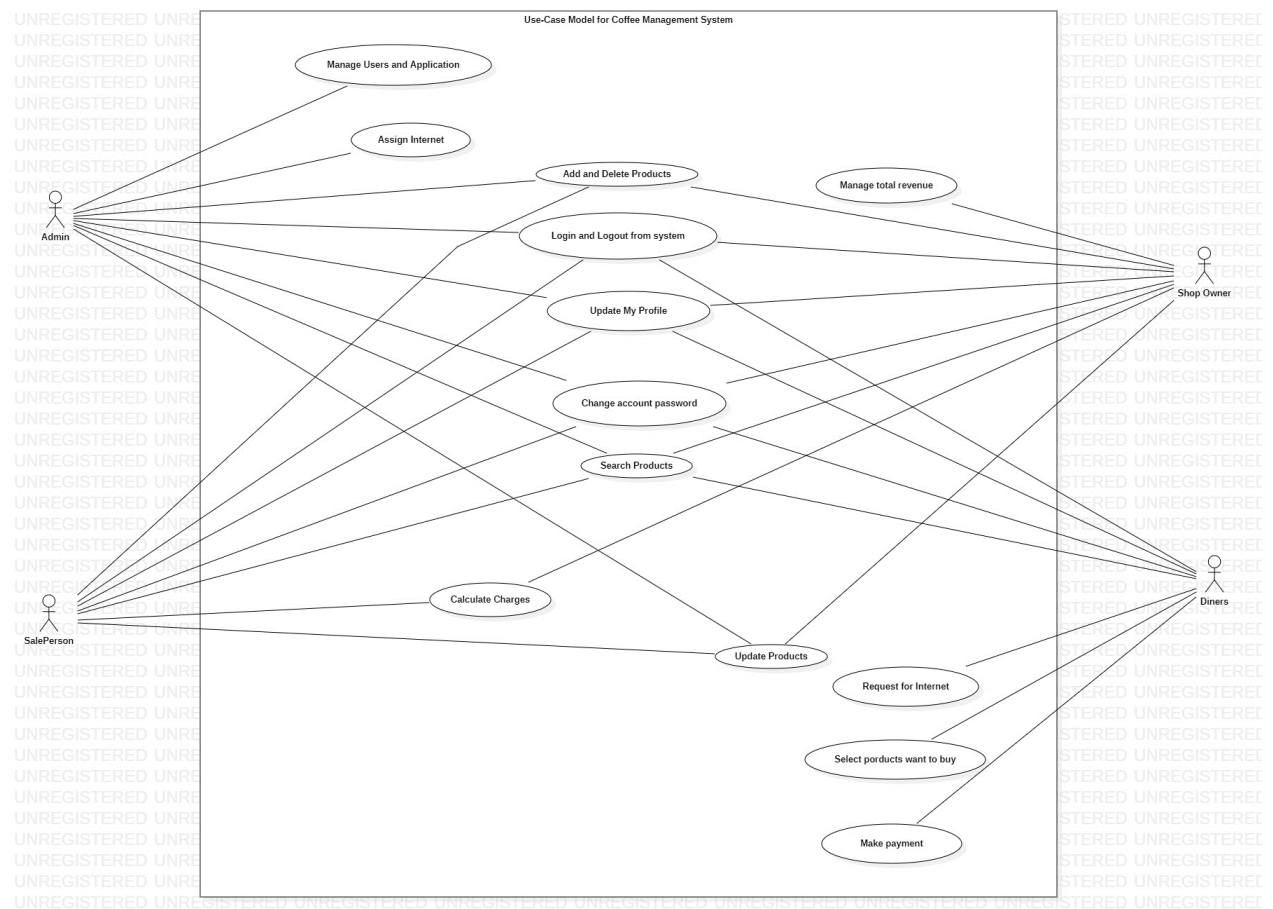
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## 1. Use-case Model



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## 2. Use-case Specifications

### 2.1 Use-case: Login

Use case Name	Login
Brief description	This use case describes how a user login into system to use other features.
Actors	Admin, Salesperson, Shop owner, diner
Basic Flow	<ol style="list-style-type: none"> <li>1. The user navigates to the login page.</li> <li>2. The system presents a login form to the user, requesting their username/email and password.</li> <li>3. The user enters their valid username/email and password.</li> <li>4. The user submits the login form.</li> <li>5. The system verifies the provided credentials against the stored user data.</li> <li>6. The system confirms the user's identity and grants access to their account.</li> <li>7. The system redirects the user to their account dashboard or a designated landing page.</li> <li>8. The user can now interact with their account and perform related actions.</li> </ol>
Alternative Flows	<p><b>Alternative flow 1: Users forgot their password.</b></p> <ol style="list-style-type: none"> <li>1. After Step 2, the user can click on a "Forgot Password" link.</li> <li>2. The system prompts the user to provide their registered email address.</li> <li>3. The user enters their email address and submits the form.</li> <li>4. The system verifies the email address and sends a password reset link to the user's email.</li> <li>5. The user receives the email and follows the instructions to reset their password.</li> <li>6. The user can then proceed with logging in using their new password.</li> </ol>
Pre-conditions	<p>The user has a registered account.</p> <p>The user has a valid username/email and password combination.</p> <p>The user has an active internet connection.</p>
Post-conditions	The user is successfully authenticated and gains access to their account.

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## 2.2 Use-case: Logout

Use case Name	Logout
Brief description	This use case describes how a user logout of system to use other features.
Actors	Admin, Salesperson, Shop owner, diner
Basic Flow	<ol style="list-style-type: none"> <li>1. The user clicks on the "Logout" or "Sign Out" button in the application interface.</li> <li>2. The system receives the logout request from the user.</li> <li>3. The system invalidates the user's session and clears any session-related data.</li> <li>4. The system logs out the user and terminates their access to the account.</li> <li>5. The system redirects the user to the login page or a designated landing page, indicating successful logout.</li> </ol>
Alternative Flows	<p><b>Alternative flow 1: Automatic Logout (Inactivity Timeout)</b></p> <ol style="list-style-type: none"> <li>1. If the system has a feature to automatically log out users after a period of inactivity, the following flow can be included:</li> <li>2. The system detects that the user's session has exceeded the inactivity timeout threshold.</li> <li>3. The system automatically logs out the user, invalidates the session, and clears session-related data.</li> <li>4. The system redirects the user to the login page or a designated landing page, indicating automatic logout due to inactivity.</li> </ol>
Pre-conditions	The user is logged in and has an active session
Post-conditions	<p>The user's session is terminated, and they are logged out of the account.</p> <p>The user is redirected to the login page or a designated landing page.</p>

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### 2.3 Use-case: Update user profile

Use case Name	Update profile
Brief description	This use case describes how a user update his/her profile on website.
Actors	Admin, Salesperson, Shop owner, diner
Basic Flow	<ol style="list-style-type: none"> <li>1. The user navigates to the profile settings or account settings page.</li> <li>2. The system presents the user's current profile information for editing.</li> <li>3. The user modifies the desired fields in the profile form (e.g., name, contact details, profile picture, etc.).</li> <li>4. The user submits the updated profile form.</li> <li>5. The system validates the updated profile information.</li> <li>6. The system saves the validated changes to the user's profile.</li> <li>7. The system displays a success message indicating that the profile update was successful.</li> <li>8. The system updates the displayed profile information to reflect the changes made by the user.</li> </ol>
Alternative Flows	<p><b>Alternative flow 1: Change password</b></p> <ol style="list-style-type: none"> <li>1. After Step 2 or Step 4, the user can choose to change their password.</li> <li>2. The system provides a separate form specifically for changing the password.</li> <li>3. The user enters their current password and a new password.</li> <li>4. The system validates the entered passwords and updates the user's password accordingly.</li> <li>5. The system displays a success message indicating that the password change was successful.</li> </ol>
Pre-conditions	<p>The user is logged in and has an active session.</p> <p>The user has navigated to the profile settings or account settings page.</p>
Post-conditions	<p>The user's profile information is updated and saved in the system.</p> <p>The updated profile information is displayed to the user.</p> <p>The user can continue using the application with the updated profile information.</p>

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## 2.4 Use-case: Searching products

Use case Name	Search product
Brief description	This use case describes how a user search a product on website
Actors	Admin, Salesperson, Shop owner, diner
Basic Flow	<ol style="list-style-type: none"> <li>1. The user enters a search query or keyword in the search input field.</li> <li>2. The user submits the search query by clicking a "Search" button or pressing the Enter key.</li> <li>3. The system receives the search query and validates it.</li> <li>4. The system searches the product database using the validated search query.</li> <li>5. The system retrieves a list of products that match the search query.</li> <li>6. The system presents the list of matching products to the user.</li> <li>7. The user can scroll through the list of products and view summary information about each product (e.g., name, image, price, rating).</li> <li>8. The user can click on a product to view detailed information about it.</li> <li>9. The system displays the detailed product information, including additional details, images, customer reviews, and related products.</li> <li>10. The user can add the product to their cart, wishlist, or perform other relevant actions.</li> </ol>
Alternative Flows	<p><b>Alternative flow 1: Empty search query</b></p> <ol style="list-style-type: none"> <li>1. The system detects that the user submitted an empty search query.</li> <li>2. The system displays an error message indicating that a valid search query is required.</li> <li>3. The user is prompted to enter a valid search query and resubmit the search.</li> </ol> <p><b>Alternative flow 2: No Matching Products</b></p> <ol style="list-style-type: none"> <li>1. The system searches the product database but finds no products that match the search query.</li> <li>2. The system displays a message indicating that no matching products were found.</li> <li>3. The user can refine their search query and perform a new search.</li> </ol>
Pre-conditions	<p>The user has access to the website/application.</p> <p>The user is on the page or section where the product search functionality is available.</p>
Post-conditions	<p>The user is presented with a list of relevant products based on their search query.</p> <p>The user can view detailed information about the products and proceed with further actions.</p>



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## 2.5 Use-case: Calculate Charges

Use case Name	Calculate Charges
Brief description	This use case describes how a shop owner/salesperson calculate charges
Actors	Shop owner, salesperson
Basic Flow	<ol style="list-style-type: none"> <li>1. The system receives the customer's order.</li> <li>2. The system applies any applicable discounts or promotions.</li> <li>3. The system calculates the subtotal, taxes, and total amount.</li> <li>4. The system presents the calculated charges to the shop owner or salesperson.</li> <li>5. The shop owner/ salesperson provides the customer with an accurate invoice or receipt.</li> </ol>
Alternative Flows	<p><b>Alternative flow 1: Step 4: Applying Discounts or Promotions</b></p> <ol style="list-style-type: none"> <li>1. Step 4: Applying Discounts or Promotions</li> <li>2. The system checks if any discounts or promotions are applicable to the customer's order.</li> <li>3. If applicable, the system applies the discounts or promotions to the relevant items/services in the order.</li> <li>4. The system recalculates the subtotal considering the applied discounts or promotions.</li> </ol> <p><b>Alternative flow 2: Step 3: Data Unavailability</b></p> <ol style="list-style-type: none"> <li>1. The system encounters a situation where the necessary data for calculating charges is unavailable or incomplete.</li> <li>2. The system displays an error message indicating the missing or incomplete data.</li> <li>3. The shop owner is prompted to provide or update the necessary data before proceeding with charge calculation.</li> </ol>
Pre-conditions	<p>The shop owner/salesperson has access to the shop management system or interface.</p> <p>The shop owner/salesperson has entered or imported the necessary data for calculating charges, such as product prices, taxes, and discounts.</p>
Post-conditions	<p>The shop owner/salesperson obtains the calculated charges for the customer's purchase.</p> <p>The shop owner/salepersons can provide the customer with an accurate invoice or receipt.</p>

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## 2.6 Use-case: Manage total revenue.

Use case Name	Manage total revenue
Brief description	This use case describes how a shop owner manage total revenue
Actors	Shop owner
Basic Flow	<ol style="list-style-type: none"> <li>1. The shop owner or authorized personnel accesses the financial management system.</li> <li>2. The system calculates the total revenue from recorded sales and transactions.</li> <li>3. The system generates reports and insights based on the total revenue.</li> <li>4. The shop owner or authorized personnel reviews and analyzes the total revenue data.</li> <li>5. Informed decisions regarding pricing, promotions, or business strategies are made based on the insights.</li> </ol>
Alternative Flows	<p><b>Alternative flow 1: Step 3: Revenue Comparison</b></p> <ol style="list-style-type: none"> <li>1. Step 3: Revenue Comparison</li> <li>2. The system compares revenue data across different time periods.</li> <li>3. Reports or visualizations highlight revenue growth or decline between compared periods.</li> <li>4. Insights from the comparison help optimize strategies and make data-driven decisions</li> </ol>
Pre-conditions	<p>The shop owner or authorized personnel has access to the financial management system or interface.</p> <p>Sales and transaction data are recorded accurately in the system.</p>
Post-conditions	<p>The total revenue of the shop is managed and tracked.</p> <p>Reports and insights on total revenue are available for analysis and decision-making.</p>

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## 2.7 Use-case: Update a product.

Use case Name	Update a product
Brief description	This use case describes how a user update information of a product
Actors	Shop owner, admin, salesperson
Basic Flow	<ol style="list-style-type: none"> <li>1. The user navigates to the product management section of the system.</li> <li>2. The user searches for the specific product they want to update.</li> <li>3. The system displays the product details for the selected product.</li> <li>4. The user modifies the desired fields or attributes of the product, such as name, price, description, or stock quantity.</li> <li>5. The user submits the updated information.</li> <li>6. The system validates the updated data for accuracy and completeness.</li> <li>7. The system saves the updated product information in the database.</li> <li>8. The system confirms the successful update and displays a confirmation message.</li> <li>9. The updated product details are reflected in the product listings or catalog.</li> </ol>
Alternative Flows	<p><b>Alternative flow 1: Step 2: Product Not Found</b></p> <ol style="list-style-type: none"> <li>1. The user searches for a specific product, but the system does not find a matching product.</li> <li>2. The system displays a message indicating that the product was not found.</li> <li>3. The user may need to verify the product details or create a new product entry if necessary.</li> </ol> <p><b>Alternative flow 1: Step 6: Validation failed.</b></p> <ol style="list-style-type: none"> <li>1. The system detects that the updated data is invalid or incomplete.</li> <li>2. The system displays an error message indicating the validation errors.</li> <li>3. The user is prompted to correct the invalid fields and resubmit the update.</li> </ol>
Pre-conditions	<p>The user (admin, salesperson, or shop owner) has the necessary permissions to update products.</p> <p>The user has access to the product management system or interface.</p>
Post-conditions	<p>The product information is successfully updated in the system.</p> <p>The updated product details are reflected in the product listings or catalog.</p>

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## 2.8 Use-case: Add products to cart.

Use case Name	Update a product
Brief description	This use case describes how a customers add a product to their cart
Actors	Diners (Customer)
Basic Flow	<ol style="list-style-type: none"> <li>1. The diner browses the available menu items or products.</li> <li>2. The diner selects a specific product they want to add to their cart.</li> <li>3. The system displays the product details, including name, price, description, and options if applicable.</li> <li>4. The diner customizes the product by selecting any desired options (e.g., size, toppings, quantity).</li> <li>5. The diner confirms their selection and chooses to add the product to their cart.</li> <li>6. The system validates the availability of the selected product and its options.</li> <li>7. The system adds the product to the diner's cart, associating it with their account or session.</li> <li>8. The system confirms the successful addition of the product and displays a notification or summary of the updated cart.</li> <li>9. The diner can continue browsing and adding more products to their cart or proceed to checkout.</li> </ol>
Alternative Flows	<p><b>Alternative flow 1: Step 6: Product Unavailability</b></p> <ol style="list-style-type: none"> <li>1. The system detects that the selected product or options are currently unavailable (e.g., out of stock).</li> <li>2. The system displays a message indicating unavailability.</li> <li>3. The diner may be prompted to choose an alternative product or proceed without the unavailable item.</li> </ol> <p><b>Alternative flow 2: Step 2: No Product Selected.</b></p> <ol style="list-style-type: none"> <li>1. The diner does not select any specific product to add to the cart.</li> <li>2. The system may display a message or provide suggestions to encourage the selection of a product.</li> </ol>
Pre-conditions	<p>The diner has access to the online ordering system or application.</p> <p>The diner has logged into their account or provided necessary identification details.</p>
Post-conditions	<p>The selected product is successfully added to the diner's cart.</p> <p>The diner can view and proceed to checkout with the items in their cart.</p>

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## 2.9 Use-case: Manage users.

Use case Name	Manage users
Brief description	This use case describes how admin manage users
Actors	Admin
Basic Flow	<ol style="list-style-type: none"> <li>1. The administrator accesses the user management system.</li> <li>2. The administrator selects a user and performs desired actions (create, modify, deactivate).</li> <li>3. The system updates the user information and permissions accordingly.</li> <li>4. Confirmation of the successful user management action is displayed.</li> </ol>
Alternative Flows	<p><b>Alternative flow 1: Step 3: User not found</b></p> <ol style="list-style-type: none"> <li>1. The administrator searches for a specific user, but the system does not find a matching user account.</li> <li>2. The system displays a message indicating that the user was not found.</li> <li>3. The administrator may need to verify the user details or create a new user account if necessary.</li> </ol>
Pre-conditions	The administrator has access to the user management system or interface. User account information and related data are available in the system.
Post-conditions	User-related actions, such as creation, modification, and deactivation, are successfully performed. User accounts and permissions are accurately updated in the system.

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## 2.10 Use-case: Manage application.

Use case Name	Manage application
Brief description	This use case describes how admin manage application
Actors	Admin
Basic Flow	<ol style="list-style-type: none"> <li>1. The administrator accesses the application management system.</li> <li>2. The administrator performs desired actions (configure settings, update modules).</li> <li>3. The system applies the requested changes or updates to the application.</li> <li>4. Confirmation of the successful application management action is displayed.</li> </ol>
Alternative Flows	<p><b>Alternative flow 1: Step 5: Invalid Input or Incomplete Information</b></p> <ol style="list-style-type: none"> <li>1. The system detects that the provided information for application configuration or update is invalid or incomplete.</li> <li>2. The system displays an error message indicating the validation errors.</li> <li>3. The administrator is prompted to correct the invalid fields or provide complete information before proceeding.</li> </ol>
Pre-conditions	<p>The administrator has access to the application management system or interface.</p> <p>Application configuration settings and related data are available in the system.</p>
Post-conditions	<p>Application-related actions, such as configuration, settings, and updates, are successfully performed.</p> <p>The application functions with the desired settings and updates in place.</p>

## 2.11 Use-case: Add a product

Use case Name	Add product
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Brief description	This use case describes how users add a new product to catalog
Actors	Admin, Shop owner, saleperson
Basic Flow	<ol style="list-style-type: none"> <li>1. The actor accesses the product management system.</li> <li>2. The actor fills in the required product information in the provided form.</li> <li>3. The actor submits the product details for addition.</li> <li>4. The system validates the entered information and saves the new product in the catalog.</li> <li>5. The system confirms the successful addition of the product.</li> </ol>
Alternative Flows	<p><b>Alternative flow 1: Step 2: Adding an existing product</b></p> <ol style="list-style-type: none"> <li>1. The actor attempts to add a product with information matching an existing product.</li> <li>2. The system detects the duplicate and prompts the actor to provide unique product details.</li> <li>3. The actor resubmits the product details with distinct information.</li> <li>4. The system successfully adds the new product to the catalog.</li> </ol>
Pre-conditions	<p>The actor has the necessary permissions to add products.</p> <p>The actor has access to the product management system or interface.</p>
Post-conditions	The new product is successfully added to the system's product catalog.

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## 2.12 Use-case: Delete a product

Use case Name	Delete product
Brief description	This use case describes how users delete a product from catalog
Actors	Admin, Shop owner, saleperson
Basic Flow	<ol style="list-style-type: none"> <li>1. The actor accesses the product management system.</li> <li>2. The system displays a list of existing products and available product management actions.</li> <li>3. The actor searches for the specific product they want to delete.</li> <li>4. The system presents the details of the selected product.</li> <li>5. The actor confirms their intention to delete the product.</li> <li>6. The system prompts for confirmation to proceed with the deletion.</li> <li>7. The actor confirms the deletion request.</li> <li>8. The system removes the product from the product catalog.</li> <li>9. The system displays a success message confirming the deletion of the product.</li> </ol>
Alternative Flows	<p><b>Alternative flow 1: Step 3: Delete an unexisting product.</b></p> <ol style="list-style-type: none"> <li>1. The actor attempts to add a product with information matching an existing product.</li> <li>2. The system detects the duplicate and prompts the actor to provide unique product details.</li> <li>3. The actor resubmits the product details with distinct information.</li> <li>4. The system successfully adds the new product to the catalog.</li> </ol>
Pre-conditions	<p>The actor has the necessary permissions to delete products.</p> <p>The actor has access to the product management system or interface.</p>
Post-conditions	The selected product is successfully removed from the system's product catalog



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### 2.13 Use-case: Make payment

Use case Name	Make payment
Brief description	This use case describes how customers pay for their cart
Actors	Diners
Basic Flow	<ol style="list-style-type: none"> <li>1. The customer proceeds to checkout and reviews the cart.</li> <li>2. The customer selects a payment method and provides necessary details if required.</li> <li>3. The system securely processes the payment and confirms the transaction.</li> <li>4. The customer receives a payment confirmation and receipt.</li> </ol>
Alternative Flows	<p><b>Alternative flow 1: Step 2: Payment Declined.</b></p> <ol style="list-style-type: none"> <li>1. The customer's payment is declined during checkout.</li> <li>2. The system displays an error message and prompts the customer to try another payment method or verify payment details.</li> <li>3. The customer resubmits the payment request with an alternative method or corrected details.</li> <li>4. The payment is successfully processed, and the system confirms the transaction.</li> <li>5. The customer receives a payment confirmation and receipt.</li> </ol>
Pre-conditions	<p>The customer has added products to their cart and is ready to proceed with the payment.</p> <p>The customer has a valid payment method linked to their account or is willing to provide payment details.</p>
Post-conditions	<p>The payment for the cart is successfully processed.</p> <p>The customer receives a payment confirmation and receipt.</p>

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## 2.14 Use-case: Assign Internet

Use case Name	Assign internet
Brief description	This use case describes how admin assign internet for website
Actors	Admin
Basic Flow	<ol style="list-style-type: none"> <li>1. The administrator selects the user or location to assign the internet service.</li> <li>2. The administrator chooses the appropriate internet plan or configuration.</li> <li>3. The internet is successfully assigned, and the service becomes available to the specified user or location.</li> </ol>
Alternative Flows	<p><b>Alternative flow 1: Step 2: Assignment Validation Failure.</b></p> <ol style="list-style-type: none"> <li>1. The system detects conflicting assignments or invalid details.</li> <li>2. The system displays an error message indicating the validation errors.</li> <li>3. The administrator is prompted to correct the conflicting details or resolve any constraints before resubmitting the assignment request.</li> </ol>
Pre-conditions	<p>The administrator has the necessary permissions and access to manage internet assignments.</p> <p>The internet service is available and accessible to be assigned.</p>
Post-conditions	The internet is successfully assigned to the specified user or location.

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## 2.15 Use-case: Request Internet

Use case Name	Request internet
Brief description	This use case describes how customers request for accessing internet
Actors	Customers
Basic Flow	<ol style="list-style-type: none"> <li>1. The customer selects the desired internet plan and provides contact and location details.</li> <li>2. The customer submits the internet service request.</li> <li>3. The request is successfully submitted to the internet service provider for further processing.</li> </ol>
Alternative Flows	<p><b>Alternative flow 1: Step 2: No Available Internet Plans.</b></p> <ol style="list-style-type: none"> <li>1. The system does not display any available internet plans or options.</li> <li>2. The customer may be informed that internet service is not currently available in their area.</li> </ol>
Pre-conditions	<p>The customer has access to the internet service provider's request system or interface.</p> <p>The customer is eligible for requesting internet service.</p>
Post-conditions	The customer's request for internet service is successfully submitted.