

## **LAB 4 Software Engineering**

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### **Use Case Description:**

Menu development and order retrieval system done by –

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Login/Signup page and payment and delivery done by –

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### **RMS Menu Development – Use Case**

Use Case Element	Description
Use Case Number	1.1
Application	RMS-Restaurant Management System
Use Case Name	Menu development
Use Case Description	The customer can easily look in the food items available and can order as per their choice.
Primary Actor	<ul style="list-style-type: none"><li>• Customer</li><li>• Restaurant manager/Administration/Database</li></ul>
Precondition	<ul style="list-style-type: none"><li>• The Restaurant is operational.</li><li>• The customer should have an account.</li><li>• The Restaurant should be ready with the physical list of food articles along with their price beforehand.</li></ul>
Postcondition	<ul style="list-style-type: none"><li>• The customer has received a list of food articles available at the restaurant.</li><li>• The restaurant has created customer account and keeps track of their order.</li></ul>
Trigger	The user wants to order food from his/her account.
Basic Flow	<ol style="list-style-type: none"><li>1. The customer goes to “Menu” section to order food.</li><li>2. The customer can select the items.</li><li>3. If the customer has logged in the them the food is ordered.</li><li>4. Else he/she will have to log in or create an account first to order.</li><li>5. Once logged in, bill will be displayed on the screen.</li><li>6. Use case ends.</li></ol>

Alternate Flows	<p><b>2A1:</b> The user can select items that are available in the menu. If an unavailable item is made available in the menu due to mistake of an employee or software issues.</p> <ol style="list-style-type: none"> <li>1. The restaurant manager will look into the error if any in the software or by an employee</li> <li>2. The restaurant manager will make a refund to the customer.</li> </ol>
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### **RMS Order Retrieval System – Use Case**

Use Case Element	Description
Use Case Number	1.2
Application	Restaurant Management System
Use Case Name	Order retrieval system
Use Case Description	Retrieve new orders from the database and to display the orders.
Primary Actor	<ul style="list-style-type: none"> <li>• Restaurant employees</li> <li>• Customers</li> </ul>
Precondition	<ul style="list-style-type: none"> <li>• Customer must be logged in.</li> <li>• Updated menu should be available on the site.</li> </ul>
Postcondition	<ul style="list-style-type: none"> <li>• Orders will be displayed in the “my account section”.</li> <li>• Orders will have a unique order number.</li> </ul>
Trigger	Once the customer clicks on place the order symbol then the order is placed.
Basic Flow	<ol style="list-style-type: none"> <li>1. Customer must login/signup.</li> <li>2. Then select the items he/she wants to order.</li> <li>3. Click on “place the order”.</li> <li>4. Once the order is placed it can be viewed under “my account”.</li> <li>5. To view the details of an order, the user must click on that order number, and all the details will be displayed.</li> </ol>
Alternate Flows	<p><b>2A1:</b> The user can select items that are available in the menu. If an unavailable item is made available in the menu due to mistake of an employee or software issues.</p> <ol style="list-style-type: none"> <li>1. The restaurant manager will look into the error if any in the software or by an employee.</li> <li>2. The restaurant manager will make a refund to the customer.</li> </ol> <p><b>5A1:</b> Order number must be unique every time. If the order number gets mixed up or the system generates two orders under same number then there is a possibility of the mixing up the order.</p>

	<ol style="list-style-type: none"> <li>1. Restaurant manager should make sure the order given to the customer is the same as they ordered.</li> <li>2. Restaurant manager should look into the error if anything like this ever occurs.</li> </ol>
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### **RMS Login/Signup page – Use Case**

Use Case Element	Description
Use Case Number	1.3
Application	Restaurant Management System
Use Case Name	Login/Signup System
Use Case Description	To make an account on the website or to login.
Primary Actor	<ul style="list-style-type: none"> <li>• Customer</li> <li>• Restaurant manager/Administration</li> </ul>
Precondition	<ul style="list-style-type: none"> <li>• The user should open our website.</li> <li>• The user should click on the login or signup option.</li> <li>• The user should enter their details.</li> </ul>
Postcondition	<ul style="list-style-type: none"> <li>• The home page of the website consisting of all the items would be displayed.</li> <li>• The customer can then proceed to order.</li> </ul>
Trigger	The customer enters their details and clicks on login/signup.
Basic Flow	<ol style="list-style-type: none"> <li>1. The user opens the website.</li> <li>2. The user enters their username and password and clicks on login if he/she already has an account.</li> <li>3. In case the user doesn't have an account, they click on "create an account"/ "signup" option.</li> <li>4. The user then enters their details and clicks on signup option.</li> <li>5. The user can also signup using social media like facebook, google, twitter etc.</li> <li>6. Once the user has logged in, the home page of the website would be visible.</li> </ol>
Alternate Flows	<p><b>2A1:</b> The user forgets their password.</p> <ul style="list-style-type: none"> <li>• In case the user forgets his/her password there will be an option using forgot password using which the user can change their password.</li> </ul> <p><b>4A1:</b> The user entered wrong details</p> <ul style="list-style-type: none"> <li>• In case the user entered wrong details, there should be an edit option provided in the "profile" section under "my account".</li> </ul> <p><b>5A1:</b> The homepage doesn't appear once the user has logged in.</p>

	<ul style="list-style-type: none"> <li>The admin should look into the maintenance of the website and should avoid website crashes.</li> </ul>
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### **RMS Payment and Delivery – Use Case**

Use Case Element	Description
Use Case Number	1.4
Application	Restaurant Management System
Use Case Name	Payment and Delivery System
Use Case Description	To pay the bills and deliver the orders.
Primary Actor	<ul style="list-style-type: none"> <li>Restaurant employees</li> <li>Customers</li> </ul>
Precondition	<ul style="list-style-type: none"> <li>Customer must be logged in.</li> <li>The bill should be paid.</li> <li>The order should be ready.</li> </ul>
Postcondition	<ul style="list-style-type: none"> <li>The order will be marked as delivered.</li> </ul>
Trigger	The bill is paid
Basic Flow	<ol style="list-style-type: none"> <li>The customer should be logged in.</li> <li>Once the customer has added all the items to the cart, they should click the buy/proceed option.</li> <li>The bill will appear on the screen.</li> <li>Once the bill is paid by the customer, the delivery will be made.</li> </ol>
Alternate Flows	<p><b>1A1:</b> If the user is not logged in, they will not be able to pay and thus the order won't be delivered.</p> <ul style="list-style-type: none"> <li>The user should make sure they are logged in.</li> </ul> <p><b>3A1:</b> The bill generated should be correct. The user should be charged the price only of the items ordered.</p> <ul style="list-style-type: none"> <li>If there is any mistake, the admin should try correcting the problem as soon as possible and not lose the trust of the customer.</li> <li>The restaurant manager should make sure the price is always charged correctly.</li> </ul> <p><b>4A1:</b> The delivery should be done to the right address.</p> <ul style="list-style-type: none"> <li>In case, the delivery is done to the wrong address, the admin should look into it.</li> <li>The customer should make sure they have entered the right address and they should have an option to edit their address.</li> </ul>

