

Practical 3

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Roll No. : 03

CSE B1

Aim: To design a State Diagram to represent the structural view of the system.

Theory:

State Diagram Scenario: User Registration and Authentication

Phase Purpose of Scenario: To illustrate the registration, authentication, and account management process for City Residents, Visitors, City Employees, and Admin.

Detailed Explanation of States:

1. City Residents and Visitors:
 - Begin by engaging in the account creation process, providing necessary details.
 - Transition to the "Account Created" state.
 - Log in with their established accounts to access the Food Safety Portal.
 - Transition to the "Logged In" state.
 - Update account settings and preferences, ensuring a tailored experience.
 - Transition to the "Account Settings Updated" state.
2. City Employees:
 - Log in with their existing accounts to access the Food Safety Portal.
 - Transition to the "Logged In" state.
 - Access specific functionalities tailored to their roles within the system.
 - Transition to the "Functionality Accessed" state.
3. Admin:
 - Log in to the Food Safety Portal with unique credentials.
 - Transition to the "Logged In" state.
 - Oversee and manage user accounts, ensuring security and integrity.

- Transition to the "Account Management" state.

State Diagram Scenario: Search and Explore

Phase Purpose of Scenario: To demonstrate the process of searching for restaurants, exploring detailed information, and receiving personalized recommendations.

Detailed Explanation of States:

1. City Residents and Visitors:

- Initiate a search for restaurants based on personal preferences.
- Transition to the "Search Initiated" state.
- Explore detailed information about various establishments, including reviews and menus.
- Transition to the "Information Explored" state.
- Receive personalized recommendations based on preferences and past interactions.
- Transition to the "Recommendations Received" state.

State Diagram Scenario: Interaction and Transaction

Phase Purpose of Scenario: To depict the process of making online bookings, processing payments, and providing feedback on dining experiences.

Detailed Explanation of States:

1. City Residents and Visitors:

- Make online bookings for preferred restaurants.
- Transition to the "Booking Made" state.
- Securely process payments for bookings.
- Transition to the "Payment Processed" state.
- Contribute to the system's feedback loop by submitting ratings, comments, and feedback.
- Transition to the "Feedback Submitted" state.

2. Restaurant Guide:

- Manage and confirm incoming online bookings.
- Transition to the "Booking Confirmed" state.
- Verify and acknowledge successful payments.
- Transition to the "Payment Verified" state.
- Update restaurant information, including menus, opening hours, and promotions.
- Transition to the "Information Updated" state.

State Diagram Scenario: Administration and Feedback

Phase Purpose of Scenario: To illustrate the process of managing user accounts, generating reports, and updating restaurant information.

Detailed Explanation of States:

1. City Employees and Restaurant Guide:

- Collaborate to generate reports on various aspects of the system.
- Transition to the "Report Generated" state.

2. Admin:

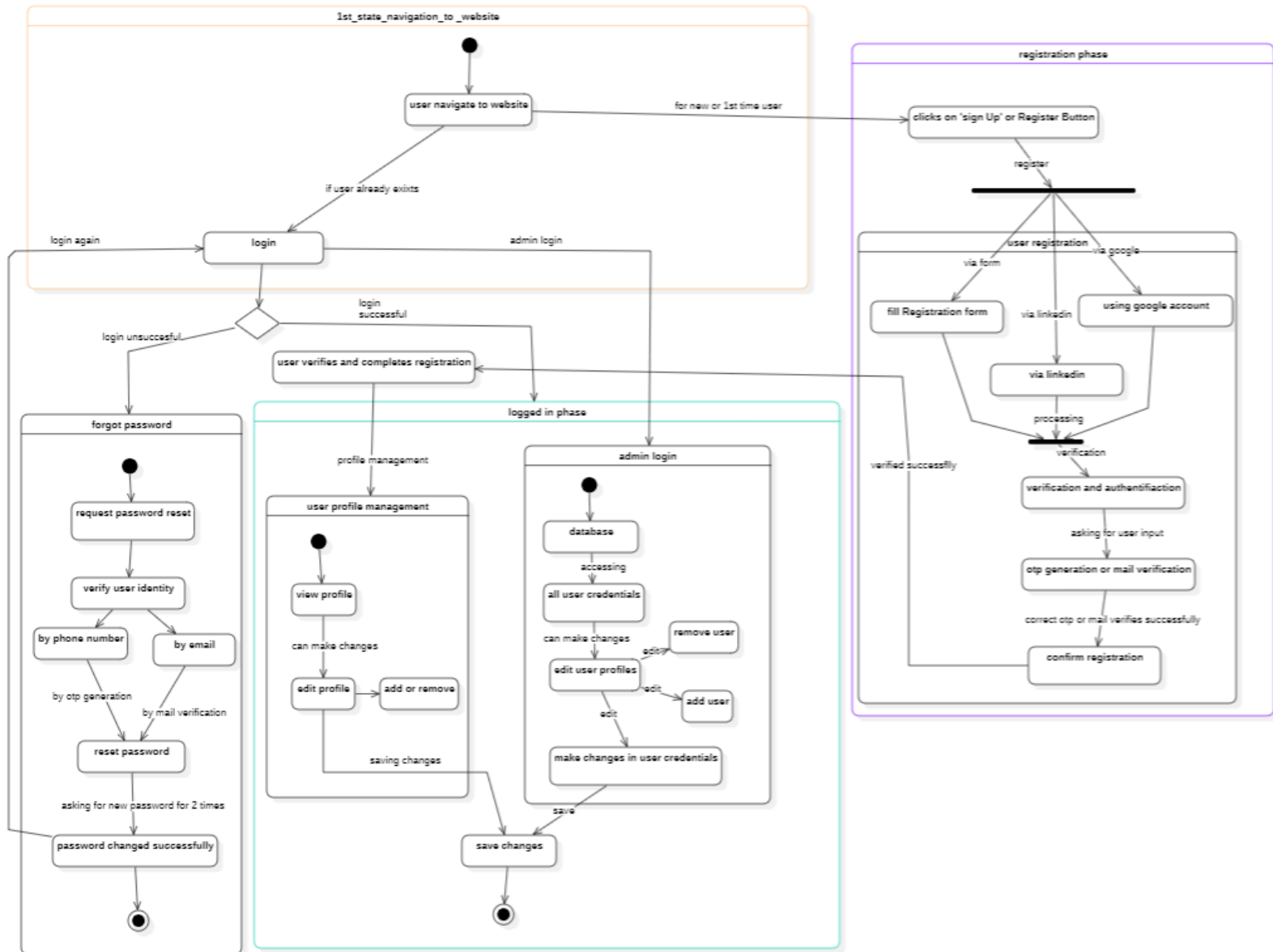
- Review generated reports, gaining valuable insights.
- Transition to the "Reports Reviewed" state.
- Update crucial restaurant information, ensuring accuracy and up-to-date details.
- Transition to the "Information Updated" state.
- Grant permissions to City Employees and Restaurant Guides.
- Transition to the "Permissions Granted" state.



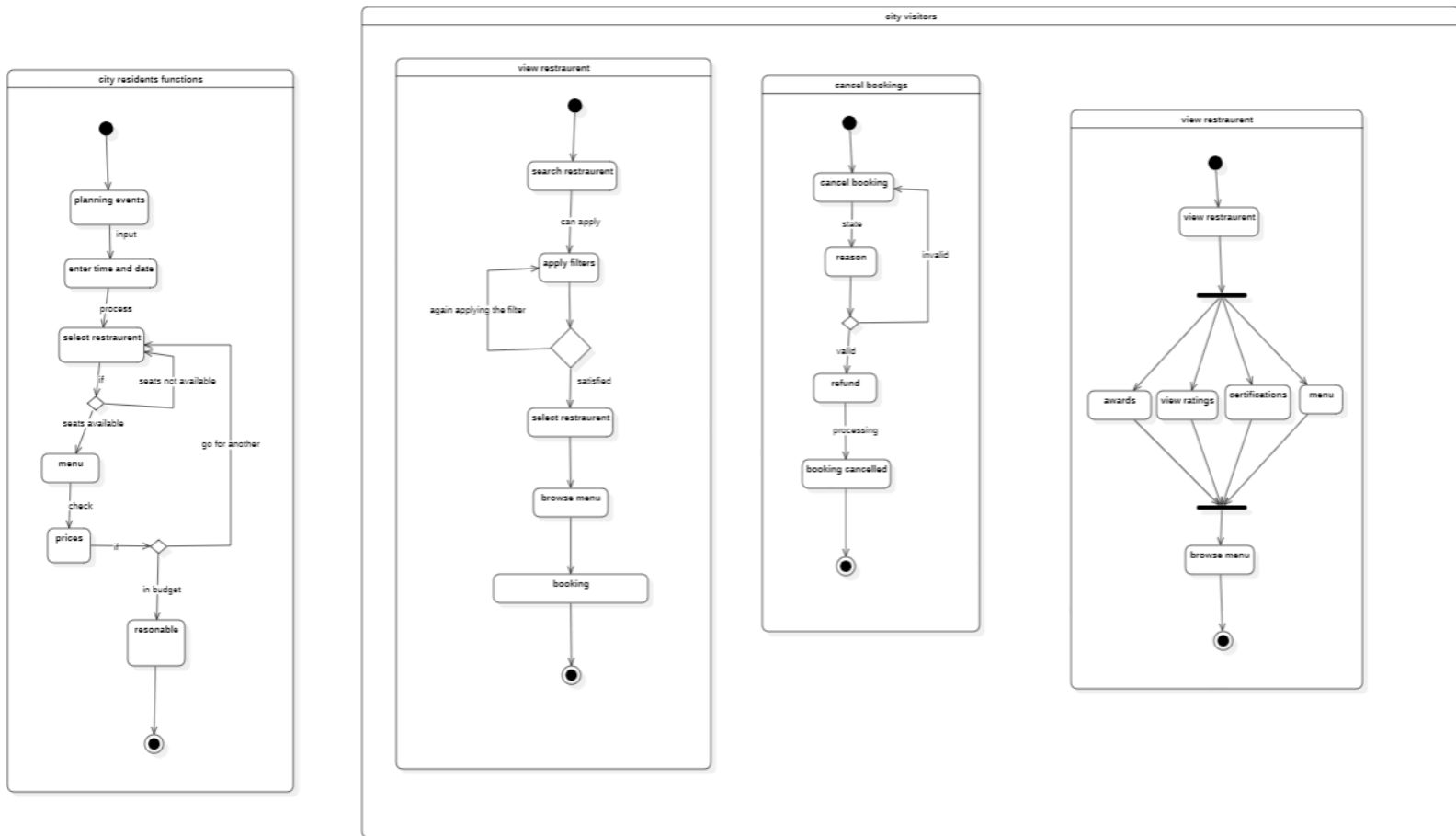
Result: state diagram has been designed and studied.

(Screenshot is attached below)

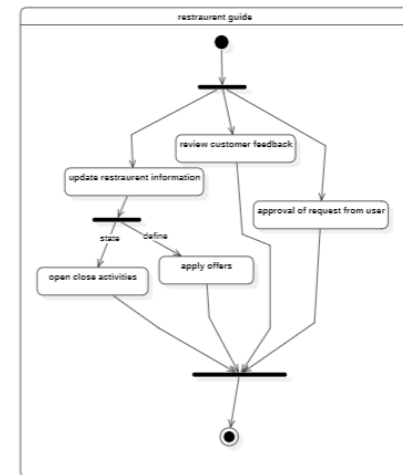
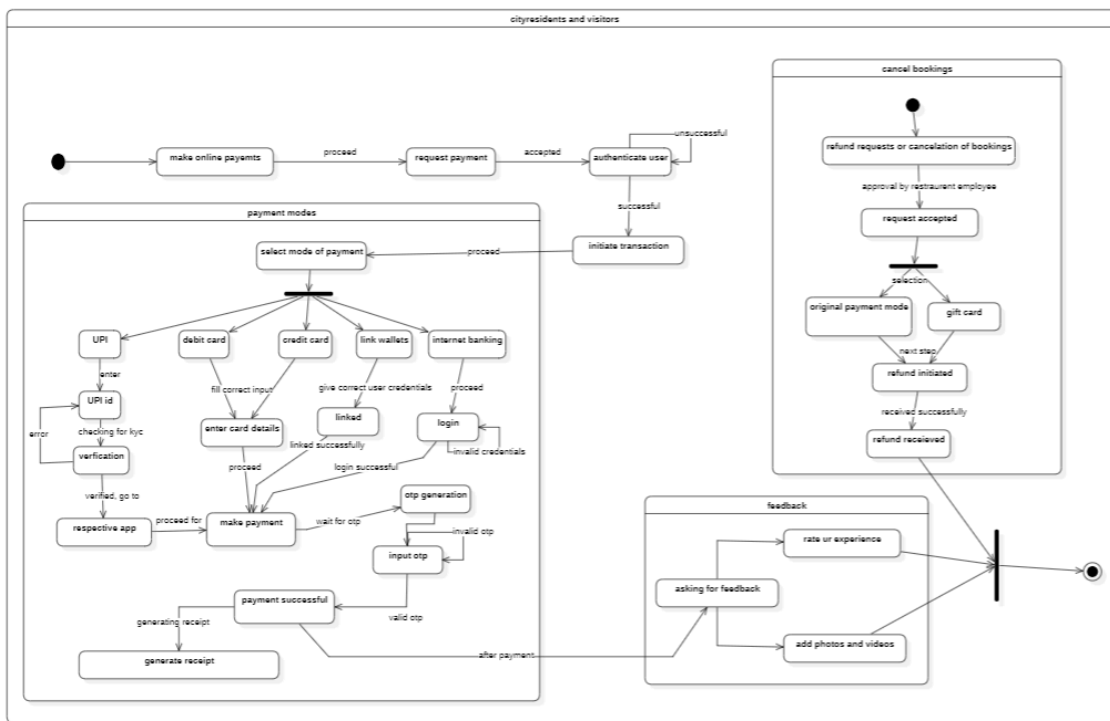
LOGIN AND REGISTRATION SCENARIO



SEARCHING AND EXPLORING SCENARIO



TRANSACTION AND INTERACTION SCENARIO



_ADMIN AND FEEDBACK REVIEW SCENARIO

admin

