

EEZON- An Inventory management system for Electronic Components

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Agenda



- Project Summary
- Demo
- Use Cases Implemented
- Design Patterns
- Interaction with Database
- Interesting Facts
- Challenges and Stretch

Project Summary



- A standalone Java application
- This application is accessible by:
 1. Administrator
 2. Professor
 3. Teaching Assistant (TA)
 4. Student

Our Goal



○ The Application is designed to

1. Manage Check IN/ Check OUT details of Course specific components
2. Request for Electronics components
3. View and update Penalties
4. Request for deadline Extensions

DEMO

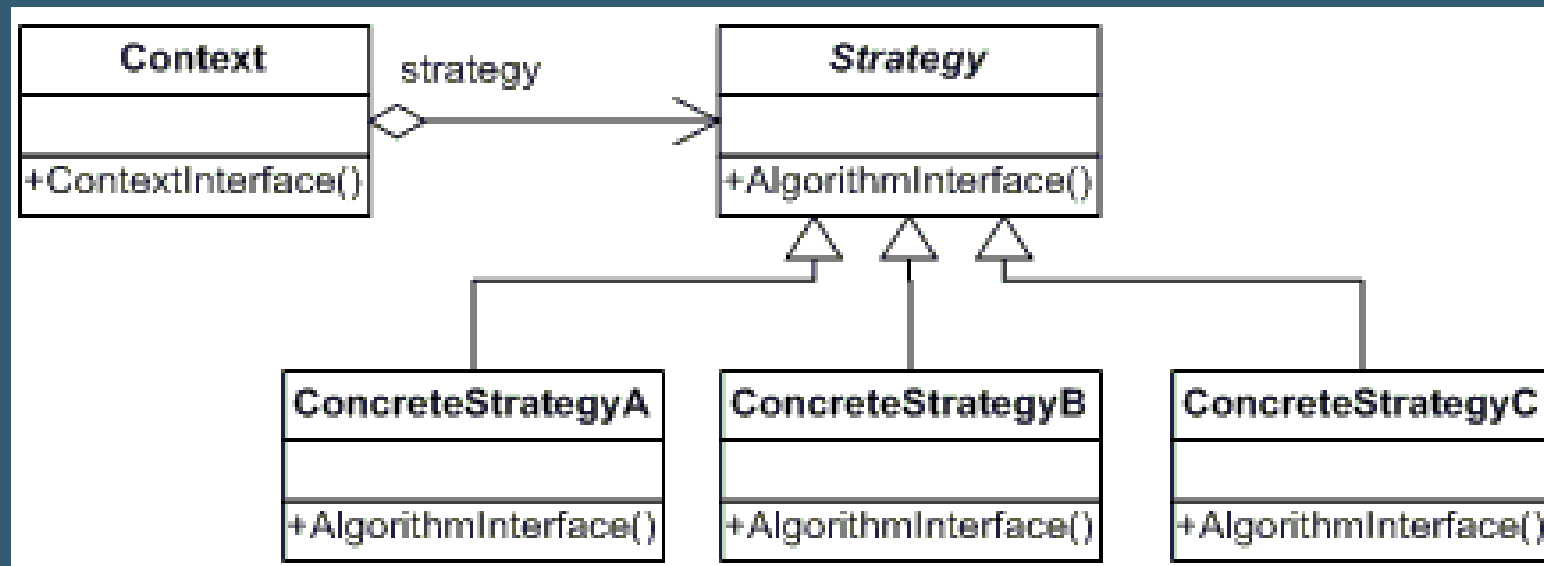
Use cases Implemented



- User can Login into his Profile
- View Course wise details of Electronic Components
- View Check IN/Check OUT details
- Update Check IN/Check OUT details in the System
- View Penalties incurred according to User role
- Override the Penalties Incurred
- Request Unavailable components
- Request for Check IN Extension

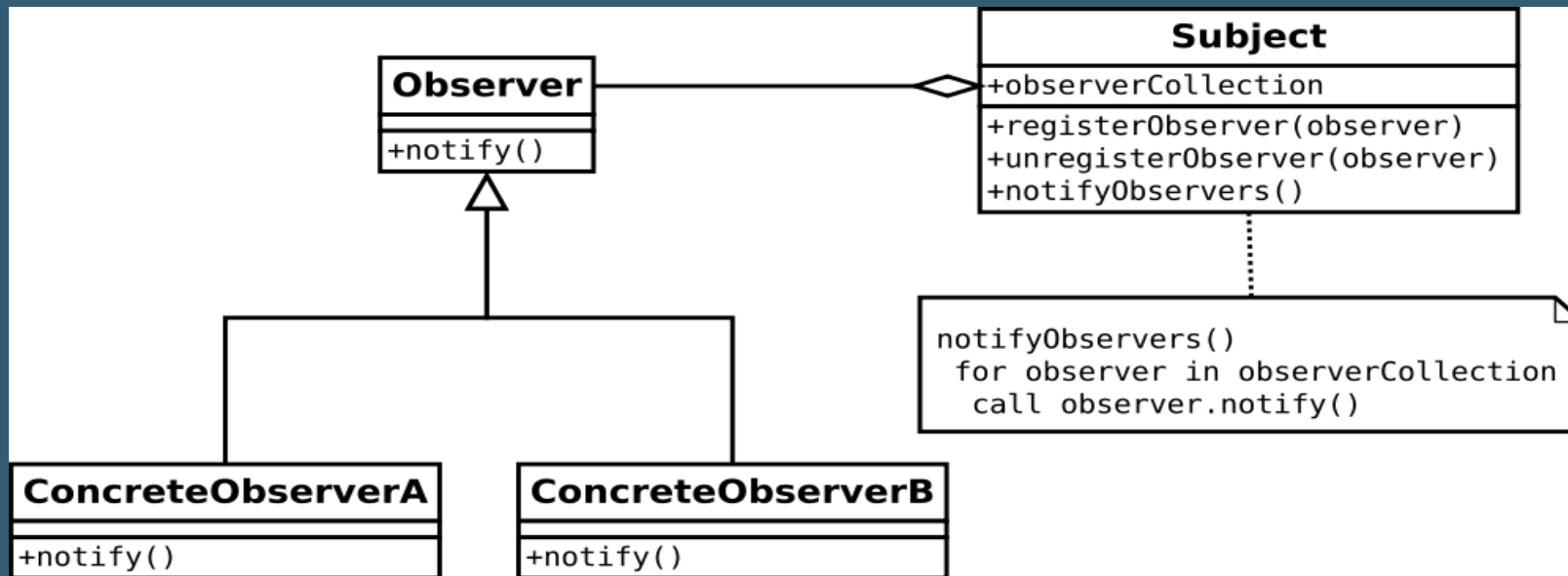
Design Patterns Implemented

Strategy Design Pattern

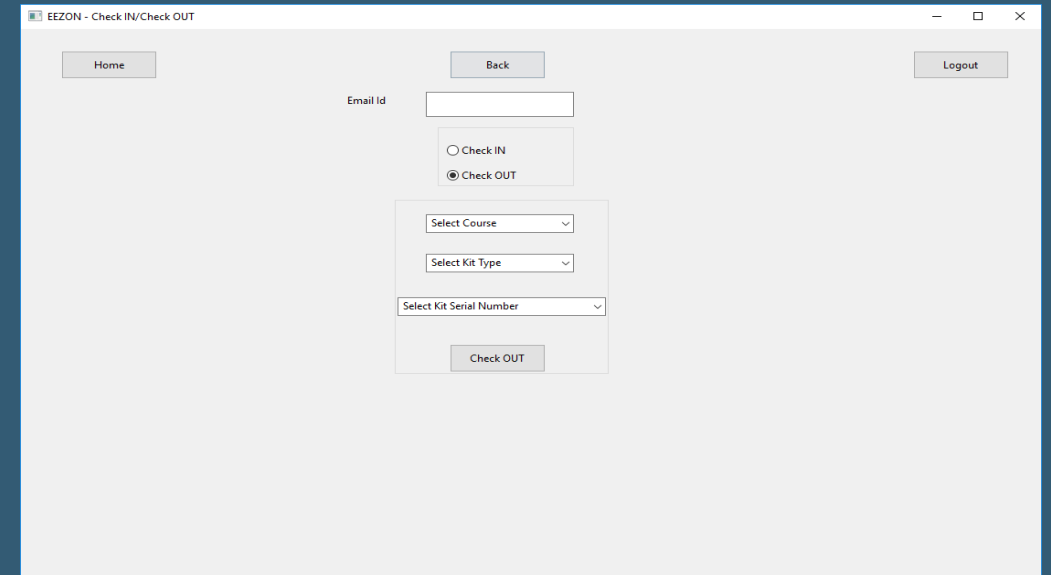


Design Patterns Implemented

Observer Design Pattern



Use Case: Check IN/Check OUT



The screenshot displays a web application window titled "EEZON - Check IN/Check OUT". The interface includes a navigation bar with "Home", "Back", and "Logout" buttons. A form for user input is centered, featuring an "Email Id" label and a text input field. Below this, there are radio buttons for "Check IN" and "Check OUT", with "Check OUT" selected. The form also contains three dropdown menus: "Select Course", "Select Kit Type", and "Select Kit Serial Number". A "Check OUT" button is positioned at the bottom of the form.



Use Case: Request Components



Use Case: View Penalties



Use Case: Override Penalty

Interaction with Database

Further Development



- Command Design pattern to maintain View Flow
- Automate the Email generations
- Backup the data from Database once a week

