Project Report

Project Description

The project's goal is to create an online platform for handling policyholders, clients, and insurance claims. With the help of the system's features for adding new claims, clients, and policies, users may effectively manage and keep track of crucial data. There are three primary parts to the overall structure:

- Claim Management: Information such as the claim ID, policy ID, description, amount, and status can be submitted and managed by users in relation to insurance claims.
- Customer management: Users have the ability to add and amend customer data, such as names, phone numbers, emails, and unique IDs
- Policy Management: Users can register new insurance policies related to consumers, including policy ID, customer ID, policy type, and premium amount.

Features

- User friendly interface
- Clear navigation to move from page to another
- Validation required before moving to another field of data

Design Decisions

- **Architecture**
  The system is designed in a modular fashion, with concerns for various functionalities (claims, customers, policies) kept apart. Because each part is intended to function independently of the others, maintenance and extension are simple.
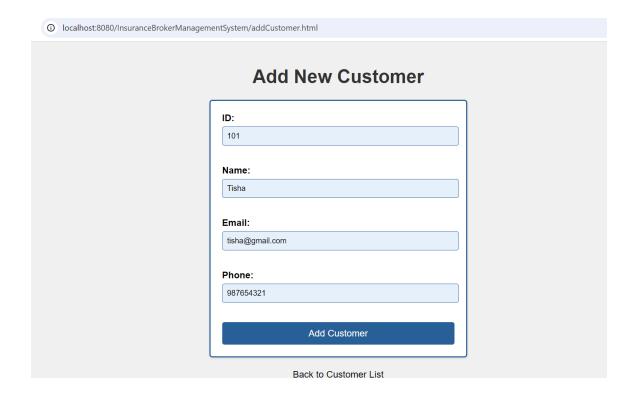- **File Storage and Format**
  JSON is the file storage format of choice for this project since it is lightweight and simple to integrate with frameworks that are based on JavaScript. JSON is perfect for web applications because it makes data serialization and deserialization simple.
- **Repository Pattern**
  The data access layer is separated from the business logic by using the Repository design pattern. Because of this division, the program can control data activities by using a specialized repository.

Screenshots

Add New Customer

ID:

101

Name:

Tisha

Email:

tisha@gmail.com

Phone:

987654321

Add Customer

Back to Customer List

Customer List

ID	Name	Email	Phone

Add New Customer

Add New Claim

Claim ID:

Policy ID:

Description:

Claim Amount:

Status:

Claim List

ID	Policy ID	Description	Amount	Status

Add New Claim

Add New Policy

Policy ID:

Customer ID:

Policy Type:

Premium Amount:

Add Policy

Policy List

ID	Customer ID	Type	Premium

Add New Policy

Project Explorer ✕

- ∨ > InsuranceBrokerManagementSystem [j2e
  - › Deployment Descriptor: InsuranceBroke
  - › JAX-WS Web Services
  - › Java Resources
  - › Referenced Libraries
  - › > build
  - ∨ > src
    - ∨ > main
      - ∨ java
        - › crud
        - › models
        - › services
        - ∨ servlets
          - ClaimServlet.java
          - CustomerOperations.java
          - CustomerServlet.java
          - PolicyServlet.java
      - ∨ > webapp
        - › META-INF
        - ∨ WEB-INF
          - › lib
          - web.xml
        - > addClaim.html
        - > addCustomer.html
        - > addPolicy.html
    - desktop.ini
  - › Servers

Problems Servers ✕ Terminal

- › Tomcat v10.1 Server at localhost

Claim List

ID	Policy ID	Description	Amount	Status
1234	1234	null	18892.0	Active
1323	76532	null	4567.0	active

Add New Claim

Policy List

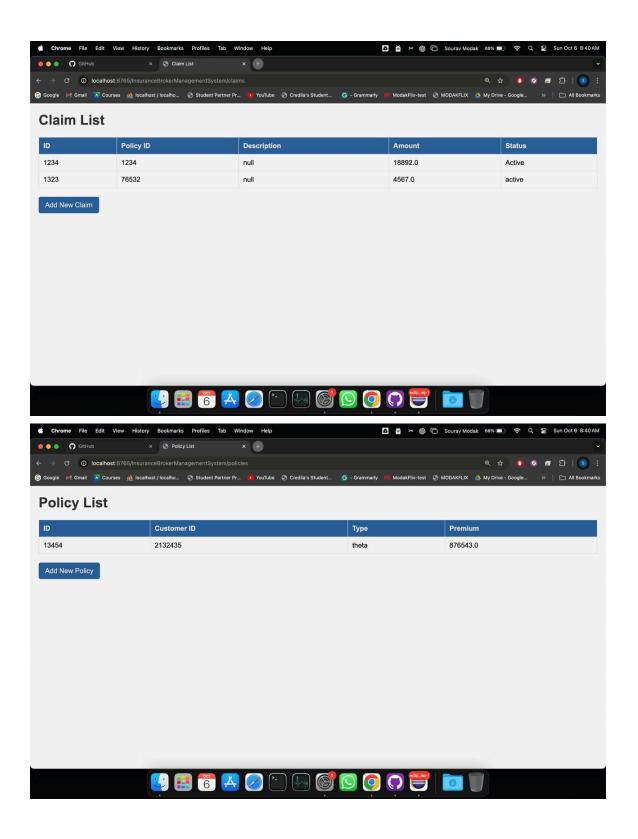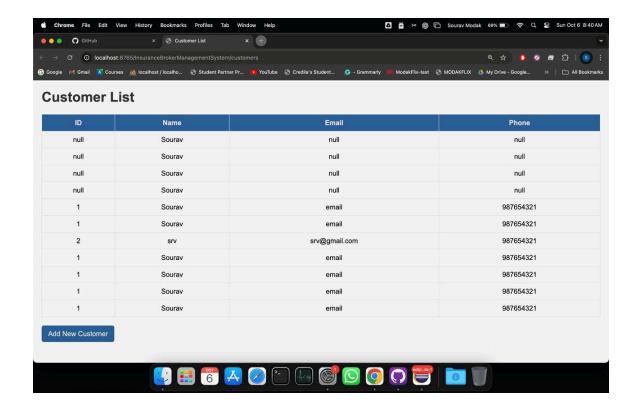| ID	Customer ID	Type	Premium
13454	2132435	theta	876543.0

Add New Policy

UML Diagrams

Collaboration Details
Our team utilized GitHub for version control and collaboration throughout the project.
Task Division