

ASSIGNMENT -2: J2EE WEB COMPONENTS

GROUP 5:

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Project Description:

Insurance Broker Management System is a comprehensive solution designed to simplify and streamline the insurance processing and reporting process. It provides a variety of features that support presentation and reporting functionality.

Features:

Submit Claims: Allows users to submit new claims by entering relevant details like policy number, description, amount, claim date.

View Claims Status: Enables users to see the current status of their submitted claims, making it transparent and trackable.

Claim Approval/Denial: Authorizes managers or brokers to approve or deny claims based on legality and adherence to company procedures.

Claims Update: Allows brokers or authorized users to make changes to keep claims information accurate and up-to-date.

Reporting Feature:

Client Management by Broker: Provides a report on the number of clients managed by each broker and provides insight into workload and individual business unit performance.

Processed Cases: Provides a summary of all cases handled, helping staff analyze the number of claims and how well they are handled.

Processed Schedules: Provides details of actively managed schedules, showing which schedules have been implemented by clients.

Approval/Denial Rates: Calculates and displays approval and denial rates for claims and provides insight into trends in claims outcomes.

The entire system is designed to be modular, separating the functions of presentation and reporting. System design takes a multilevel approach, including business logic in service classes, data retrieval in store classes, and HTTP operations in servlet controllers.

ARCHITECTURE:

The system is implemented using a Servlet-based MVC architecture an extension to the assignment 1 implemented previously . This architecture separates concerns effectively, improving scalability, maintainability, and testability. Here is a breakdown of the core architectural components:

- **Model:** Represents the data and business logic. For this system, the model includes claim information, broker details, and customer data.
- **View:** Consists of JSPs or front-end elements (HTML, CSS, JavaScript) that interact with users to display data or take input.
- **Controller (Servlets):** Manages HTTP requests and responses, calling the appropriate methods in the service layer and sending data back to the view.

This MVC approach simplifies development, making it easier to modify, extend, or replace individual components as the system evolves.

Data Management:

The data is stoored in MYSQL database where we have different table like

claims: Stores claim records, including details like claim ID, policy number, claim description, amount, date, and status (e.g., approved, rejected).

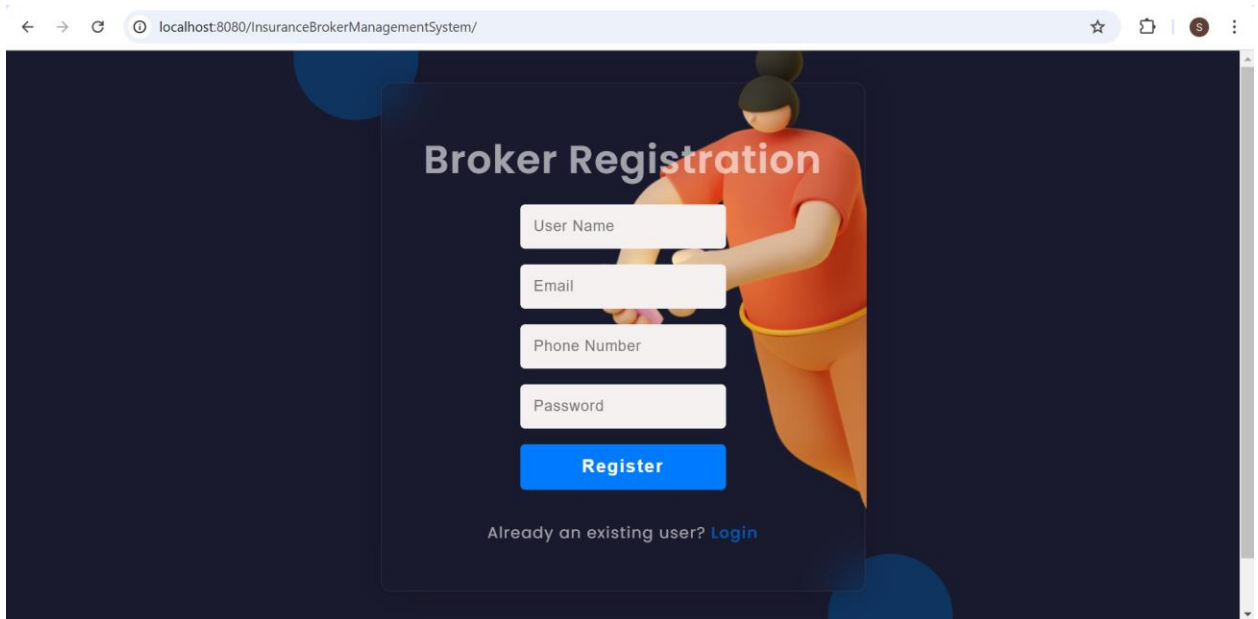
customers: Holds information about customers, including customer ID, name, contact details, and assigned broker.

policies: Contains details of available policies, such as policy number, name, type, start and end dates, coverage amount, and premium amount.

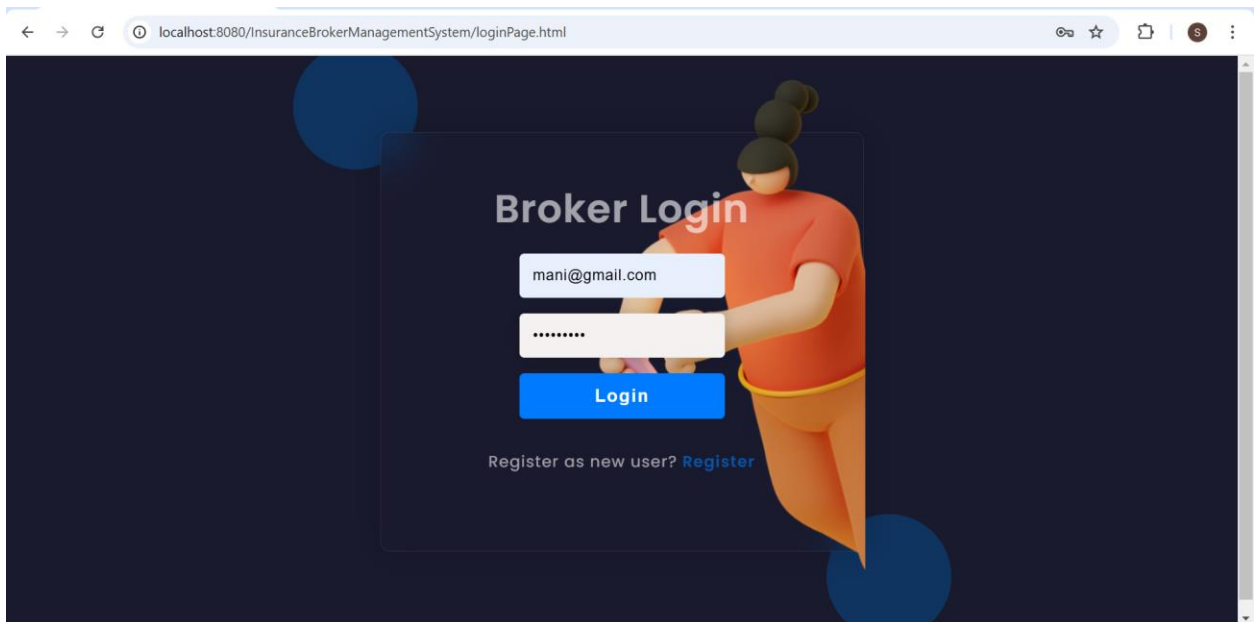
customer_policies: Manages relationships between customers and their policies. This table links customer IDs to the policies they've enrolled in, showing which customer holds which policy.

brokers: Stores information about brokers, including broker ID, name, contact information, and email. This helps identify which broker manages which customer.

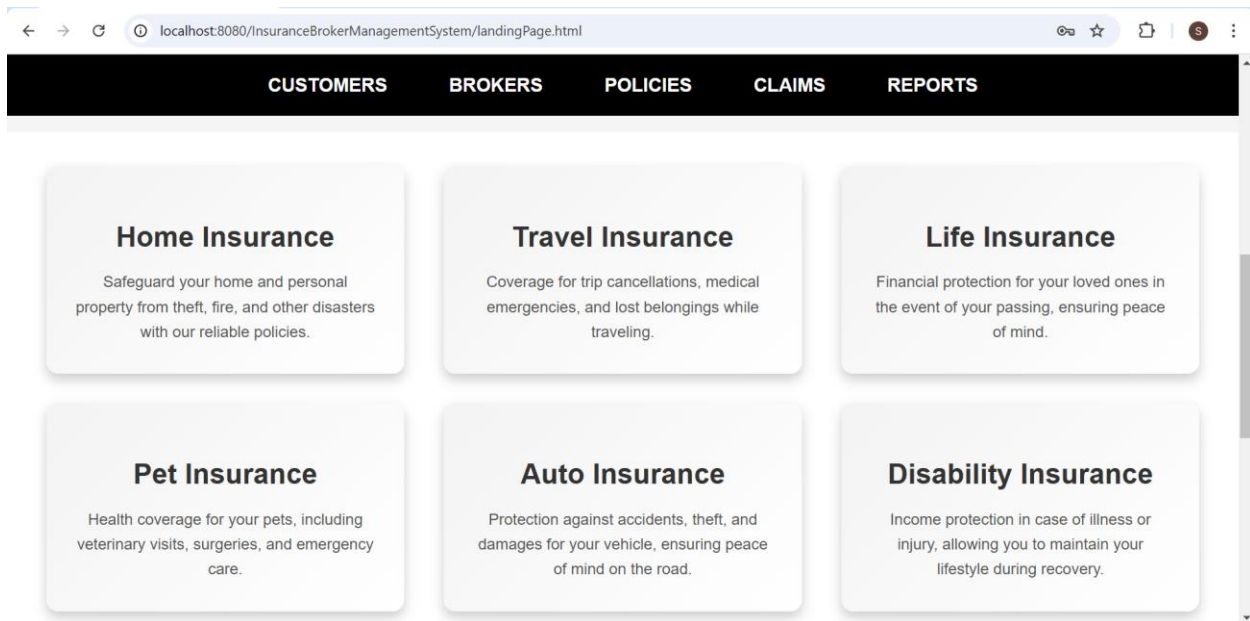
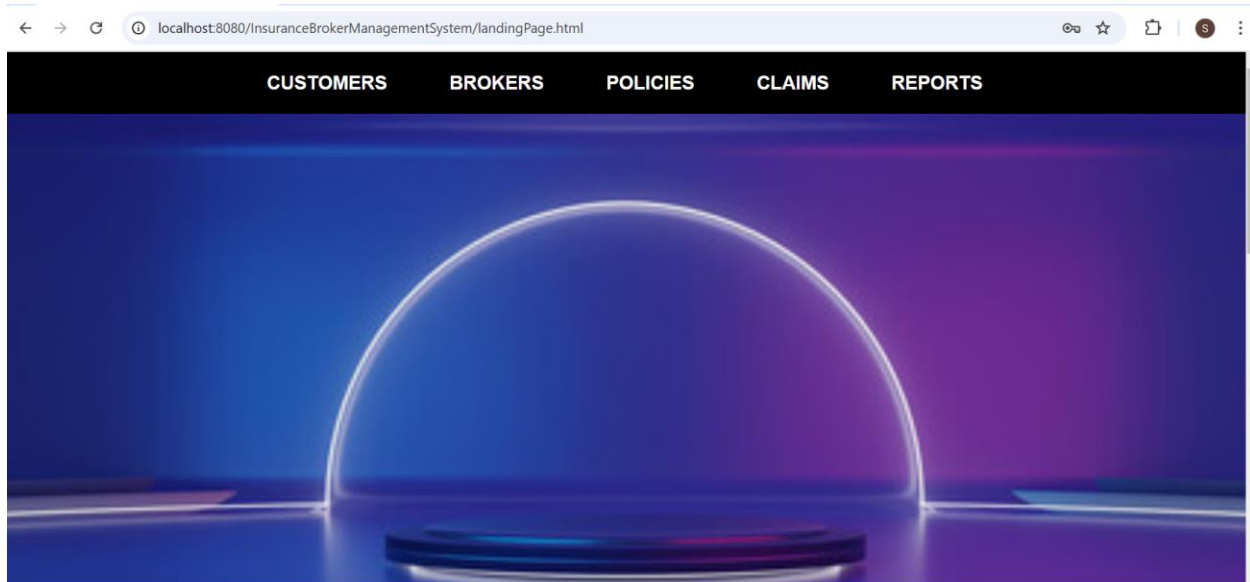
OUTPUT SCREENSHOTS:



A screenshot of a web browser displaying the 'Broker Registration' page. The browser's address bar shows 'localhost:8080/InsuranceBrokerManagementSystem/'. The page has a dark blue background with a stylized illustration of a person in an orange shirt and pants. A central white form contains the following fields: 'User Name', 'Email', 'Phone Number', and 'Password'. Below these fields is a blue 'Register' button. At the bottom of the form, it says 'Already an existing user? [Login](#)'.



A screenshot of a web browser displaying the 'Broker Login' page. The browser's address bar shows 'localhost:8080/InsuranceBrokerManagementSystem/loginPage.html'. The page has a dark blue background with a stylized illustration of a person in an orange shirt and pants. A central white form contains the following fields: 'Email' (with the text 'mani@gmail.com') and 'Password' (with masked characters '*****'). Below these fields is a blue 'Login' button. At the bottom of the form, it says 'Register as new user? [Register](#)'.



localhost:8080/InsuranceBrokerManagementSystem/Claims.html

Submit New Claim Update Claim Approve/Reject Claim View Claims Home

Submit New Claim

Claim ID:

Policy Number:

Description:

Amount:

localhost:8080/InsuranceBrokerManagementSystem/Claims.html

Policy Number:

Description:

Amount:

Date of Claim:

localhost:8080/InsuranceBrokerManagementSystem/Claims.html

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Policy Number:

234

Description:

submitting claims for the health.

Amount:

2000

Date of Claim:

2024-11-15

Submit Claim

localhost:8080/InsuranceBrokerManagementSystem/Claims.html#

Submit New ClaimUpdate ClaimApprove/Reject ClaimView ClaimsHome

View Claims

Claim ID	Policy Number	Description	Amount	Status
1	22	claim submitted for the incident appeared	220	Rejected
10	234	submitting claims for the health.	2000	Pending
2	121	claimed for the health pro policy	2300	Approved
3	122	claimed for the life insurance plan	400	Approved
6	123	claimed for the automobile insident	3000	Approved

localhost:8080/InsuranceBrokerManagementSystem/Claims.html#

Update Claim

Claim ID:

Search

Policy Number:

Description:

Amount:

Status:

localhost:8080/InsuranceBrokerManagementSystem/Claims.html#

Search

Policy Number:

Description:

Amount:

Status:

Update Claim

localhost:8080/InsuranceBrokerManagementSystem/Claims.html#

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Submit New Claim

Update Claim

Approve/Reject Claim

View Claims

Home

View Claims

Claim ID	Policy Number	Description	Amount	Status
1	22	claim submitted for the incident appeared	220	Rejected
10	234	submitting claims for the health.	3000	Pending
2	121	claimed for the health pro policy	2300	Approved
3	122	claimed for the life insurance plan	400	Approved
6	123	claimed for the automobile incident	3000	Approved

localhost:8080/InsuranceBrokerManagementSystem/Claims.html#

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Submit New Claim

Update Claim

Approve/Reject Claim

View Claims

Home

Approve/Reject Claim

Claim ID:

10

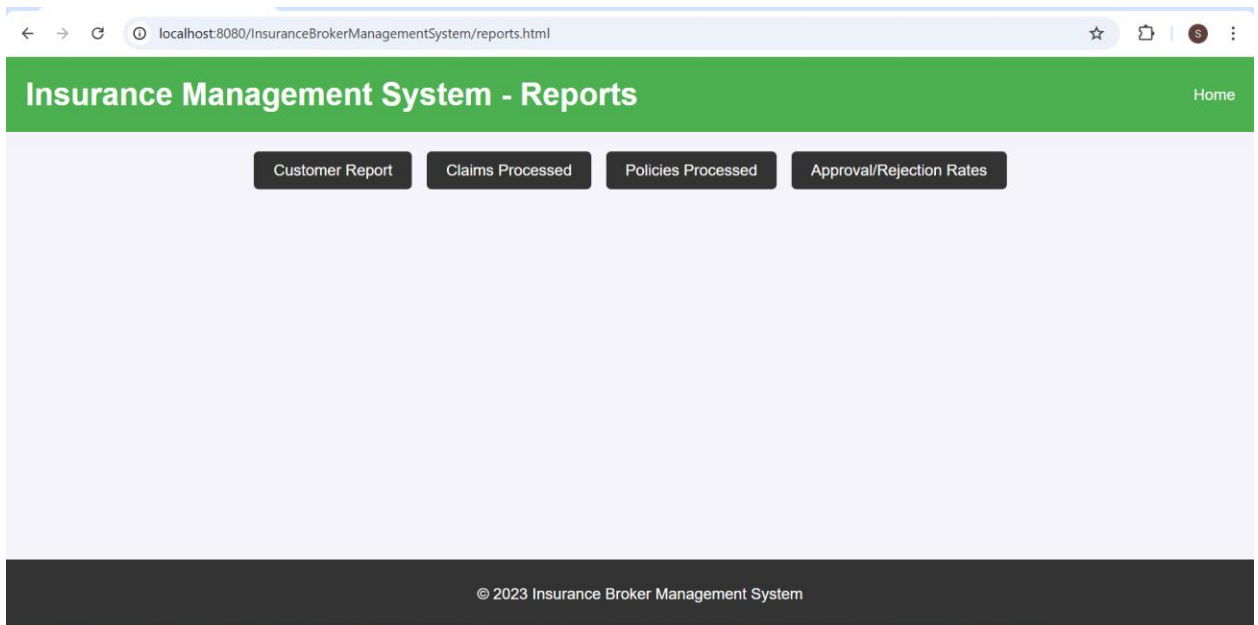
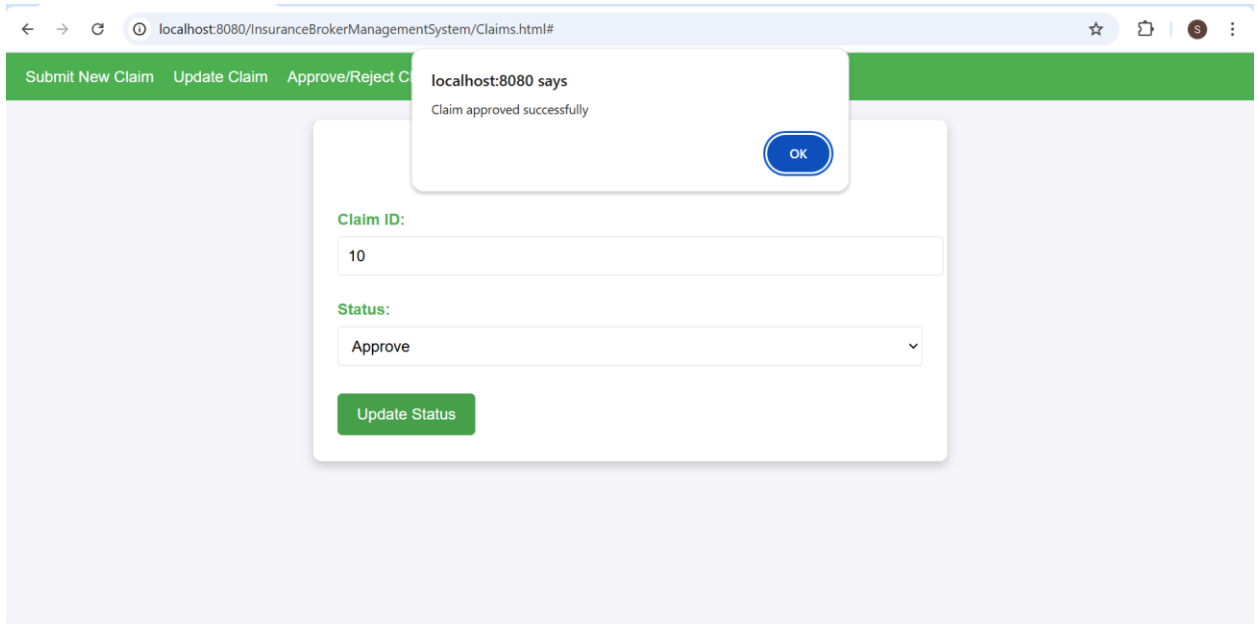
Status:

Approve

Approve

Reject

Update Status



localhost:8080/InsuranceBrokerManagementSystem/reports.html

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Insurance Management System - Reports

Home

Customer Report

Claims Processed

Policies Processed

Approval/Rejection Rates

Brokers and Customer Count

Broker Name	Customer Count
siva	2
mani	2
adm	0
ram	0
siva	2
test	0

Close

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localhost:8080/InsuranceBrokerManagementSystem/reports.html

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Insurance Management System - Reports

Home

Customer Report

Claims Processed

Policies Processed

Approval/Rejection Rates

Customer Details

Customer Name	Contact Details
teja	4678782542
ram	2346782542

Close

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Insurance Management System - ReportsHome

Customer ReportClaims ProcessedPolicies ProcessedApproval/Rejection Rates

Claims Processed

4 of 5 processed

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Insurance Management System - ReportsHome

Customer ReportClaims ProcessedPolicies ProcessedApproval/Rejection Rates

Processed Claims Details

Policy Number	Description	Amount
234	submitting claims for the health.	3000
121	claimed for the health pro policy	2300
122	claimed for the life insurance plan	400
123	claimed for the automobile insident	3000

Close

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Insurance Management System - Reports

Home

Customer Report

Claims Processed

Policies Processed

Approval/Rejection Rates

Policies Processed

5 of 6 used

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Insurance Management System - Reports

Home

Customer Report

Claims Processed

Policies Processed

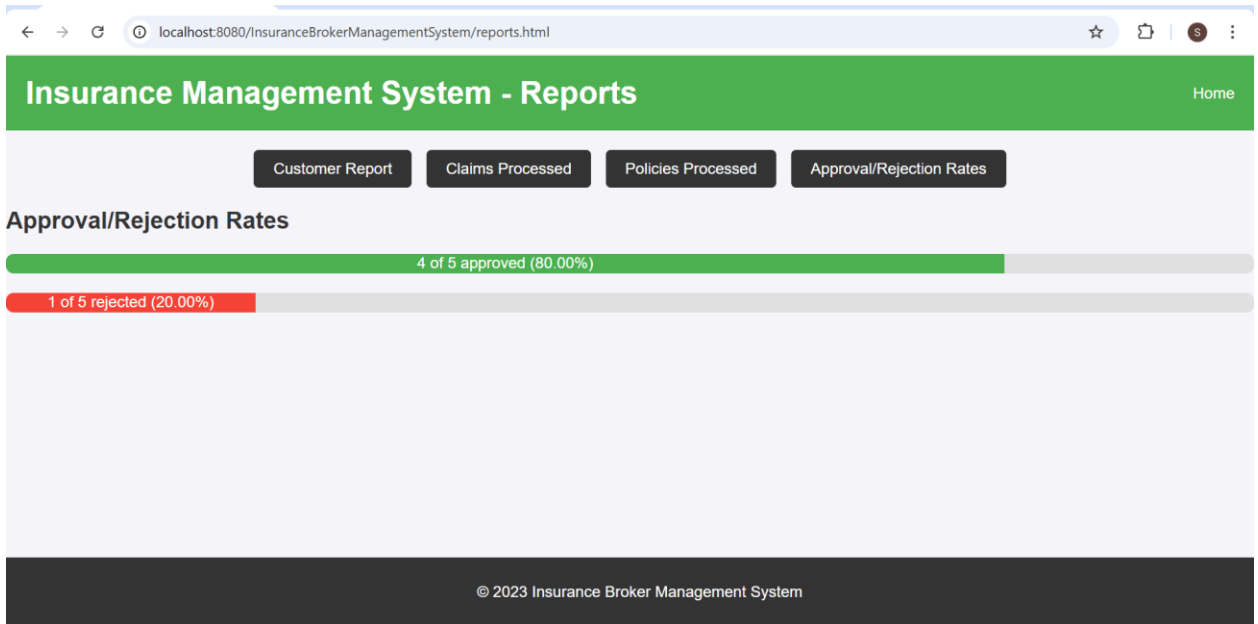
Approval/Rejection Rates

Used Policies Details

Policy Name	Customer Name
health pro	siva kumar
health pro plus	harsha
life plus	teja
life pro	ram
life pro	chandu
Automobile pro	sarat

Close

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localhost:8080/InsuranceBrokerManagementSystem/reports.html

Insurance Management System - Reports

Home

Customer Report Claims Processed Policies Processed Approval/Rejection Rates

Approved Claims Details

Claim ID	Description
234	submitting claims for the health.
121	claimed for the health pro policy
122	claimed for the life insurance plan
123	claimed for the automobile incident

Close

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localhost:8080/InsuranceBrokerManagementSystem/reports.html

Insurance Management System - Reports

Home

Customer Report Claims Processed Policies Processed Approval/Rejection Rates

Rejected Claims Details

Claim ID	Description
22	claim submitted for the incident appeared

Close

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Collaboration Details:

As a team of five people we have divided the the whole task of Assignment 2 into several independent tasks where the claims backend code is been handled by the sarath chandran and the frontend design of claims management is handled by the mani krishna and also testing of this modules are handled by them and the reporting feature backend is handled by the siva kumar and all the schema creation and tables creation and xml configuration are handle by vamsi krishna and sai chandu helped with the frontend design part of the reporting feature and the thread safe management of the application as well like this we have combined the whole severel tasks to develop the fully fucntional insurance management system as part of Assignement.