

Phase 2 End Project

The objective of the project is to create an application where the user can register with his credentials and log in with the same. The application is created using JSP, servlets and hibernate. MySQL database is used to store the information of the individuals. Apache Tomcat is the web-server used.

SPRINTS

The project can be done in 3 sprints lasting 4 days each as explained below:

-Sprint #1

- Create the entity class to take the user details.
- Outline the milestones need to be completed to reach the goal.
- Ensure database and server functionality.
- Create the index.jsp file as the start point of the project.

-Sprint #2

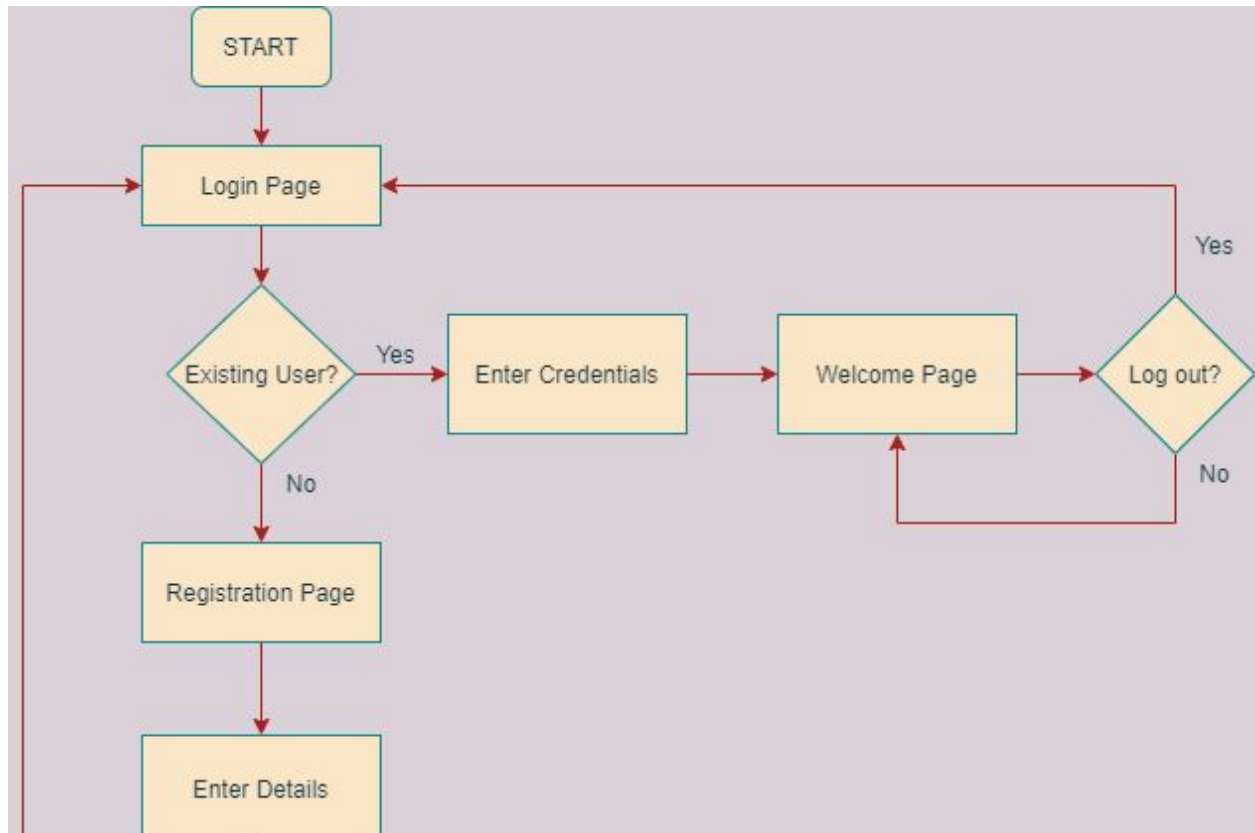
- Create functions to save the inputs entered by the user to the database.
- Create a hibernate session.
- Establish the connections as required.
- Write a registration.jsp and welcome.jsp for front end input intake.

-Sprint #3

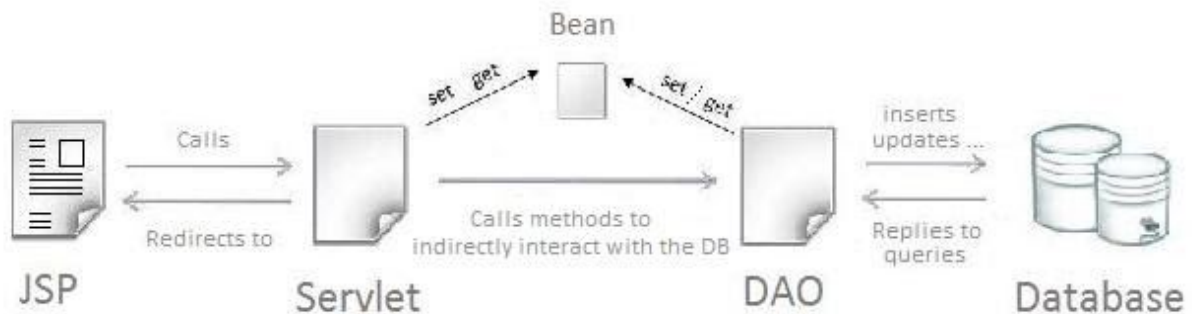
- Create Servlet classes for Login and Registration.
- Connect the jsp pages and the servlets.
- Set redirects and forwards.
- Ensure proper functionality.

FLOWCHART

A simple flowchart to explain the basic flow of the program is attached below. The flowchart will give a better understanding of the functionalities of the application and also the redirection of pages.



The following diagram obtained from an online source helps in understanding the basic concepts regarding the functionality of the requirements:



PROJECT BREAKDOWN

- The Register.java class takes in the user entities using Getter and Setter methods.
- The RegisterModel.java class defines the following functions:
 - update() : To save the data entered by the user to the database
 - find() : To check whether the user entered credentials exists in the database.
 - validate() : To validate the password entered and other credentials with that in the database.
- LoginServlet.java is used to check and carry out the login process. If the information entered by the user matches with that in the database, the user is taken to the welcome page. Otherwise the user is redirected to the login page and has access to the registration page if needed.
- RegistrationServlet.java is used to take the user details entered at registration and decide the entry. If the values entered matches with the credentials already in the database, the user is asked to create a unique ID. If the registration was successful the user is redirected to the login page.