# **PRG381-Project outline**

* We need to create an application for students to login and registering for a wellness service

## To Be Clear: What Must Be Done (Milestone 1)

From the Instructions:

* register.jsp — Registration form
* login.jsp — Login form
* dashboard.jsp — Welcome, shows logged-in student’s name
* logout — Ends session
* PostgreSQL — Stores users only

No appointment system yet. No feedback yet. No counselor management.

## In Milestone 2 (Desktop App)

That’s where students (or staff) will:

* Book appointments
* View counselors
* Submit/view feedback

You’ll build those in Java Swing with OOP, and store the data in JavaDB.

## Roles for Milestone 1

**Member A (Kyle Haynes-Smart)— Floating Developer (Support + Problem-Solver)**

I will assist and troubleshoot across all sections of the project, including frontend, backend, database, and integration. Your main tasks include:

* Supporting all members with debugging and testing.
* Helping with form validation and layout enhancements in JSP pages.
* Assisting with Servlet logic such as handling doPost(), redirections, and session management.
* Testing database connectivity and executing queries.
* Coordinating the integration of all parts into a fully functioning application.
* Testing the entire user flow: from registration to login, dashboard display, and logout.

**Member B — Frontend Developer**

This role focuses on creating and styling the JSP pages and designing the form layouts. Responsibilities include:

* Creating index.jsp with links to the login and registration pages.
* Creating register.jsp with input fields such as name, surname, email, phone, password, and student number.
* Creating login.jsp with email and password input fields.
* Creating dashboard.jsp to display a personalized welcome message and logout button.
* Ensuring all forms submit to the correct servlet using <form action="..." method="post">.
* Adding basic input validations, like required fields and valid email format checks.

**Member C — Backend Developer**

This person develops the Servlet logic and manages user session flow. Key tasks include:

* Creating RegisterServlet.java that:
  + Reads form input using request.getParameter().
  + Checks for existing users in the database.
  + Inserts new users if the data is valid.
  + Redirects to login.jsp with a success message or back to register.jsp with an error.
* Creating LoginServlet.java that:
  + Verifies user credentials.
  + Starts a session and redirects to dashboard.jsp on successful login.
  + Shows an error message if login fails.
* Implementing logout functionality by invalidating the session and redirecting to login.jsp.

**Member D — Database Developer**

Responsible for designing, implementing, and managing the PostgreSQL database. Tasks include:

* Setting up PostgreSQL locally or on a shared host.
* Creating the users table with these fields:
  + student\_number, name, surname, email, phone, password.
* Applying constraints to the table:
  + NOT NULL for all fields.
  + UNIQUE constraints on email and student number.
* Writing and sharing the SQL script (create\_users\_table.sql) with the team.
* Assisting the backend developer with the JDBC connection URL, username, and password.
* Helping write SELECT and INSERT queries for the servlets.

## Suggested GitHub Folder Structure

/web

├── index.jsp

├── login.jsp

├── register.jsp

├── dashboard.jsp

/src

├── RegisterServlet.java

├── LoginServlet.java

/db

└── create\_users\_table.sql

/.gitignore

README.md

**Please note that this project is a mixture of PRG281,DBD281 and WPR381 modules, and that we will need to use the knowledge we learned from these modules and incorporate them here.**