GROUP FINAL PROJECT

FULL STACK SKILLS BOOTCAMP

FULL-STACK APPLICATION DEVELOPMENT: FINAL PROJECT

- **Lesson Overview:**

- In this lesson, we will focus on:

  - Develop wireframes

  - choose technologies

  - build prototypes

  - set up the initial project structure.

OBJECTIVES FOR SESSION 2

- **Conduct Research**:
  Investigate similar applications and identify best practices.

- Explore new technologies or libraries to fulfill project requirements.

- **Wireframing**:
  Design the application's user interface and user experience (UI/UX).

- Create detailed wireframes or mockups for all major screens.

- **Set Up Project Structure**:
  Initialize the project repositories for frontend (React) and backend (Django).

- Create basic boilerplates for both frontend and backend.

- **Prototype Key Features**:
  Begin prototyping critical components (e.g., authentication, forms, APIs).

EXPECTED OUTCOMES

- **Research Insights**:
  Document findings on tools, technologies, and best practices.

- Finalize the choice of new technology or library for integration.

- **Wireframes/Mockups**:
  Complete designs for the core features of the application.

- **Project Setup**:
  Functional repositories with clear folder structures.

- Basic frontend and backend integration ready for development.

- **Prototypes**:
  Early versions of critical features to test feasibility and flow.

KEY ACTIVITIES

- **Research**:
  Identify use cases and inspiration from similar applications.

- Explore one new tool or library to integrate.

- **Design**:
  Create wireframes for each page, focusing on UI/UX.

- Use tools like Figma, Balsamiq, or Adobe XD for mockups.

KEY ACTIVITIES

- **Set Up Repositories**:
  Initialize GitHub repositories with clear naming conventions.

- Set up React and NodeJS/Sequelize

- **Prototype Development**:
  Prototype authentication system (e.g., login, registration).

- Build sample components for data input and display.

CHALLENGES TO ADDRESS

- **Technology Selection**:

  - Ensure compatibility between the new tool and existing stack.

- **Wireframe Feasibility**:

  - Balance between innovative designs and practical implementation.

- **Integration Issues**:

  - Resolve potential issues in connecting React and Django early on.

ACCEPTANCE CRITERIA RECAP

- The application must:

1. **Display and Receive Input**: User interaction feature (e.g., forms, search bar).

2. **Use Authentication**: Login, registration, and logout system.

3. **Be Responsive**: Work seamlessly on desktop, tablet, and mobile.

4. **Error-Free and Intuitive UI**: User-friendly and visually appealing.

5. **Integrate New Technology**: Use a library or tool not covered in class.

NEXT STEPS

- **Prepare for Session 3:**
  - Begin developing core features.
  - Assign specific coding tasks for frontend and backend.
  - Test initial prototypes and refine as necessary.

GOOD LUCK!

"Plans are nothing; planning is everything." – **Dwight D. Eisenhower**

Let's build the foundation for something incredible!

QUESTIONS?