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Mobile App Development Final Term Project Guidelines

Course: Mobile App Development

Presentation Date: 2nd Week of December

Project Type: Group Project

Objective

This project aims to apply your knowledge of Kotlin mobile app development by creating a functional mobile application that includes authentication, CRUD operations, image integration, and an SQL or online database connection. Throughout the final term, students will engage in self-directed learning while CRUD concepts are being discussed in class.

Project Requirements

1. 1. Login Authentication
   - Users must be able to register, log in, and log out securely.
   - Authentication should be connected to your chosen database (SQL or other online database solutions).
2. 2. CRUD Operations
   - Include at least one data model that supports Create, Read, Update, and Delete operations.
   - Example: Posts, Products, Notes, or Tasks.
3. 3. Use of Images
   - Integrate image upload or display functionality.
   - Example: Profile pictures, gallery images, or product photos.
4. 4. Database Integration
   - Connect your app to an SQL or online database to store and manage app data.
   - You may use MySQL, SQLite (local) combined with sync logic, or any other online database.
   - Iyour app includes a social feature, users should be able to share or view others' posts or outputs.

Self-Directed Learning Component

While CRUD topics will be discuss in class, groups are expected to:
- Start planning and designing their project concept and user interface.
- Explore Kotlin and SQL integration tutorials and references independently.
- Collaborate effectively - assign members specific roles (UI design, backend, logic, database, documentation).
- Develop progressively, applying class topics to your project implementation.

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Deadline: End of Week 2 (Before CRUD Lecture Completion).

Weekly Progress Report

Each group must report weekly updates on their project.
- Progress Report Template will be provided
Note: Incomplete or missing weekly progress may affect your final project score.

Tips for Success

- Keep your app simple yet functional, focus on usability and correctness.
- Choose a database solution that matches your app's scope and your team's skill level.
- Test your app regularly to avoid last-minute errors.
- Work consistently and collaborate well with your groupmates.
- Seek instructor feedback during your weekly progress checks.