

# PROJECT PROPOSAL

## SODV 3203: Mobile Application Development

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- **Proposal overview:**

**TaskEasy** is a networked Android application designed to help users manage their daily tasks efficiently. The app allows users to create, edit, and delete tasks, view them in a list, and set reminders for upcoming tasks. It integrates with a third-party API to fetch motivational quotes to inspire users and persists task data locally for offline access. The app features a simple, intuitive interface following Google's Material Design guidelines. This proposal outlines the app's scope through a feature list (as user stories) and wireframe descriptions for its primary screens. The project is designed to be challenging yet achievable, focusing on core Android development skills such as UI design, local storage, notifications, and API integration

- **Application idea:**

Name: TaskEasy

Topic: Personal productivity/ Task management

Description: TaskEasy is a user-friendly task management app that helps users organize their daily activities. Users can log in, create and manage tasks and view them in a list. The app enhances the user experience by displaying a motivational quote on the task list screen, fetched from a third-party API. Task data is saved locally, ensuring accessibility without an internet connection

- **Features (user stories):**

The following user stories define the core functionality of TaskEasy, meeting the project's minimum requirements:

1. **Login Screen:**

- As a user, I want to log in with a username and password so that my tasks are associated with my account.
- As a user, I want to register for a new account if I don't have one.

2. **Task List Screen:**

- As a user, I want to view a list of all my tasks so that I can see what I need to do.
- As a user, I want to see a motivational quote at the top of the task list to inspire me, fetched from a third-party API.
- As a user, I want to mark tasks as complete or delete them from the list.

3. **Add/Edit Task Screen:**

- As a user, I want to create a new task with a title, description, and due date so that I can plan my activities.
- As a user, I want to edit an existing task to update its details.

4. **Local Data Persistence:**

- As a user, I want my tasks to be saved locally on my device so that I can access them offline.
- Implementation: Tasks will be stored using SQLite or Room database to persist data locally.

5. **Networked Connection:**

- As a user, I want the app to fetch a new motivational quote each time I open the task list screen, using a third-party API.
- Implementation: The app will integrate with the API Ninjas Api to retrieve random motivational quotes.

- **Wireframes:**

# WIREFRAMES

**TASKEASY**

USERNAME

PASSWORD

LOGIN

REGISTER

→

**TASKEASY**

QUOTE

REFRESH

TASK (xxx) ☒ ☐

DATE (xxx)

⊕ Add task.

TASKS Add LOGOUT

**TASKEASY**

TITLE

DESCRIPTION

DUE DATE

REMINDER

SAVE CANCEL

- **Implementation notes:**

**UI:** The app will follow Google's Material Design guidelines (<https://material.io/design/>) for components like buttons, text fields, and navigation.

**Local Storage:** SQLite or Room database will be used to store tasks and user credentials locally.

**Networking:** The API Ninjas Api (<https://api.api-ninjas.com/v1/quotes>) will provide motivational quotes, requiring a simple HTTP GET request with Api secret in request header using Volley.

**Authentication:** For simplicity, authentication will be local (stored in the database) rather than requiring a server, but it will simulate a networked login experience.