

CollabTrack

Project & Task Management System

Course: COSC4320 21224 MAIN - Software Engineering

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Project Theme



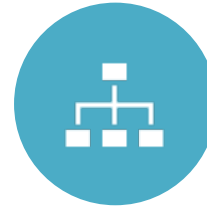
A SIMPLE, FAST, AND
ORGANIZED
COLLABORATION
PLATFORM.



- CENTRALIZED
DASHBOARD



- EASY TASK MANAGEMENT

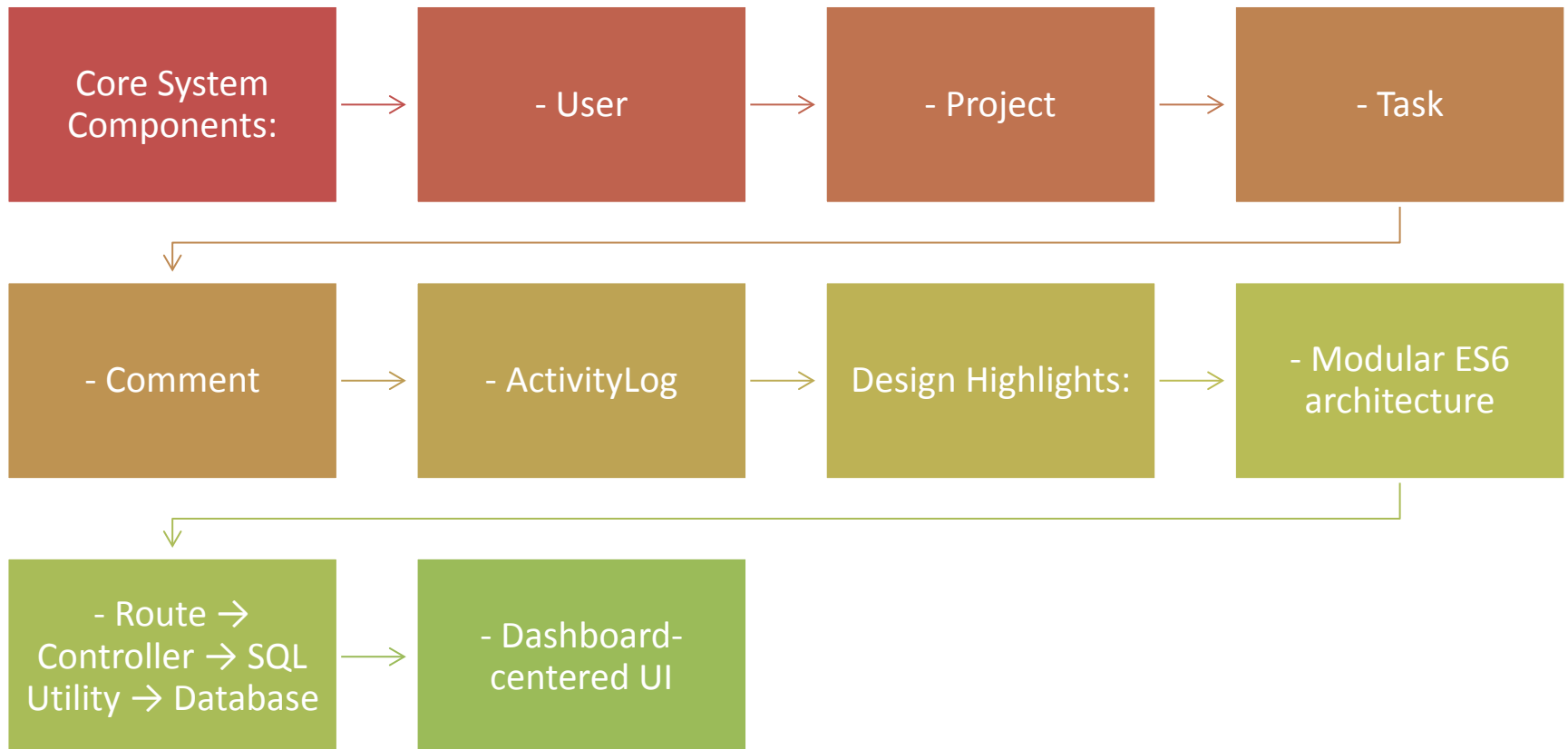


- CLEAR PROJECT
ORGANIZATION



- SMOOTH
COLLABORATION

Abstract OOP / High-Level Design



Database Design

Essential Tables:

- users (PK: user_id)
- projects (PK: project_id, FK: owner_id)
- project_members (Composite Key: project_id + user_id)
- tasks (PK: task_id, FK: project_id)
- comments (PK: comment_id, FK: task_id, FK: author_id)

Key Flowchart — Creating a Task

1. User opens “New Task” modal
2. User enters required fields
3. System validates input
4. SQL helper executes INSERT
5. Dashboard reloads with new task

UI Example: New Task Modal

New Task

Task Name

Urgency

High


▼

Importance

High

▼

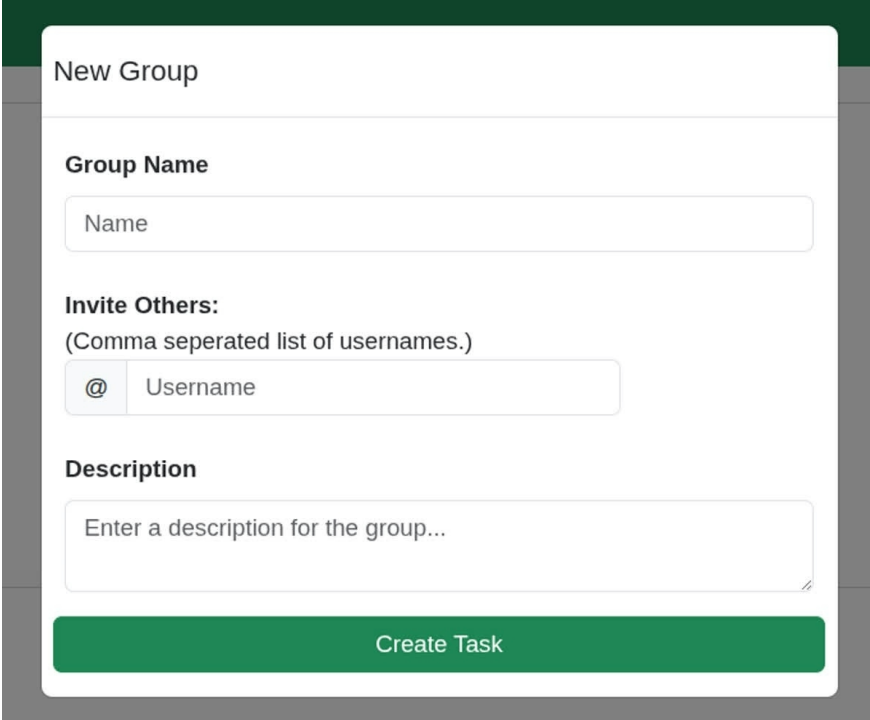
Due Date



Task Description

Create Task

UI Example: Group Creation Modal



New Group

Group Name

Invite Others:
(Comma seperated list of usernames.)

Description

Create Task

Implemented Requirements

- - User authentication
- - Dashboard redesign
- - Project creation & membership
- - Task creation (urgency, importance, due date)
- - Activity logging
- - Comment system
- - SQL helper module (sqlTools.mjs)
- - Fully functional EJS UI