

# CollabTrack

Project & Task Management System

Course: COSC4320 21224 MAIN - Software Engineering

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# Project Theme



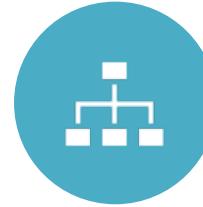
A SIMPLE, FAST, AND  
ORGANIZED  
COLLABORATION  
PLATFORM.



- CENTRALIZED  
DASHBOARD



- EASY TASK MANAGEMENT

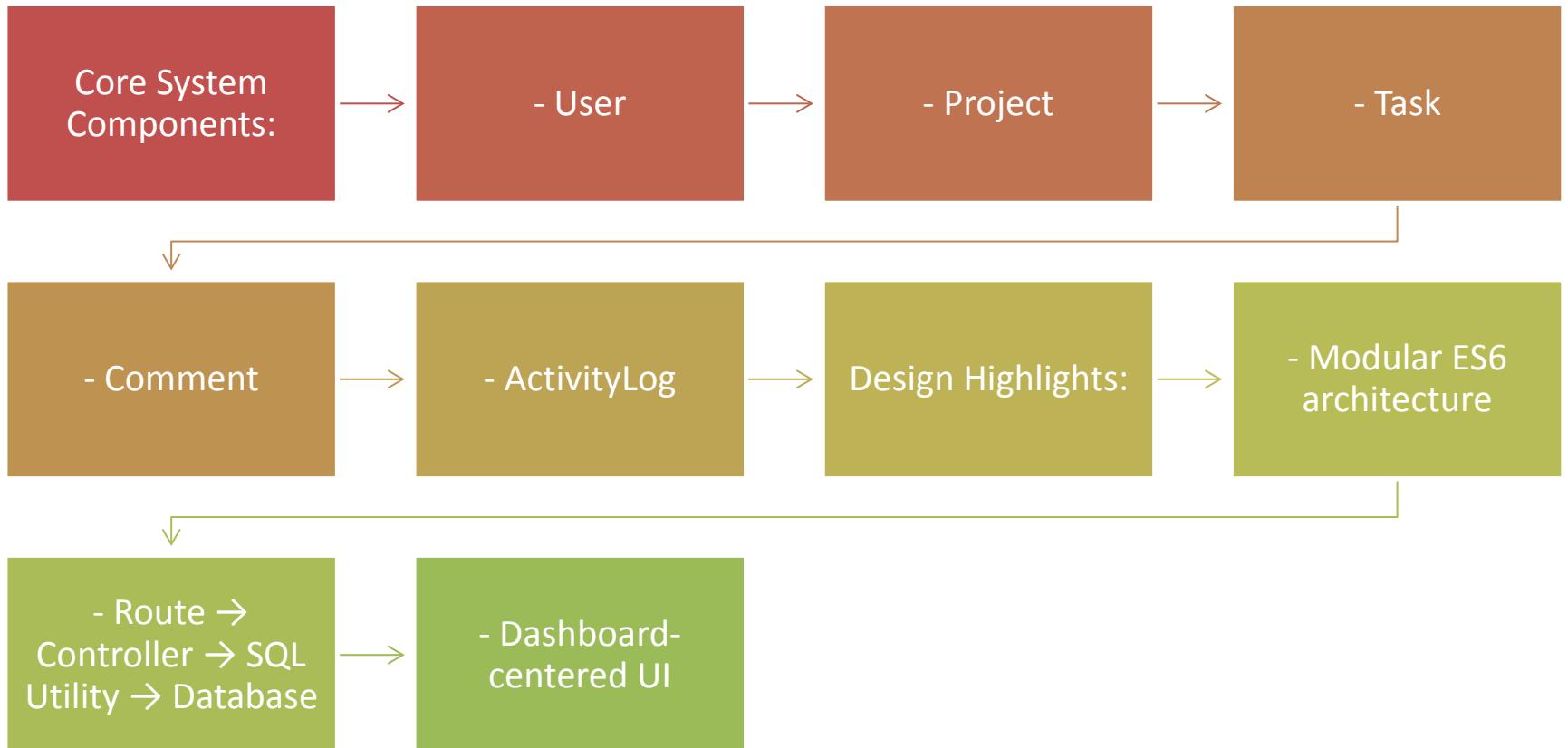


- CLEAR PROJECT  
ORGANIZATION



- 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**

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**Task Description**

Create Task

# UI Example: Group Creation Modal

The image shows a 'New Group' creation modal window. The title bar is dark green with the text 'New Group'. The main area has a white background. It contains three input fields: 'Group Name' with a placeholder 'Name', 'Invite Others:' with a placeholder '(Comma seperated list of usernames.)' and a field for '@ Username', and 'Description' with a placeholder 'Enter a description for the group...'. A large green button at the bottom right is labeled 'Create Task'.

New Group

**Group Name**

Name

**Invite Others:**  
(Comma seperated list of usernames.)

@ Username

**Description**

Enter a description for the group...

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