Technical Document

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Introduction

* Overview of project and goals
  + The goal of this project is to develop a personal to do list application that lets users manage their tasks. This app is built using Django for the backend and Bootstrap for the front end.
  + AssignMate is designed to be easy to use and straightforward, allowing the user to create and view tasks with ease.
* Tech stack used
  + Django
  + Bootstrap

System Design

* The application follows Django’s Model-View-Controller architecture.
  + Frontend powered by Bootstrap
    - Where users can
      * View current task
      * Create task
      * Delete task
  + Backend
    - The backend is built using Django, which handles the logic and database interactions of the app.
    - Key Responsibilities
      * Managing tasks (creating, viewing, updating, and deleting task)
      * Updates task status
      * Maps URLs to views to handle user request
  + Database
    - Database Table: Task

|  |  |  |
| --- | --- | --- |
| Field Name | Data Type | Description |
| id | Integer | Primary key |
| title | Char field | Title of the task |
| body | Char field | Description of taks |
| created\_at | DateTimeField | Timestamp with task was created |
| user | Foreign Key | Links the task to a user |
| status | Char Field | Current status of the task |

Field Details

* Status:
  + Displays the task’s progress
    - not\_started
    - In\_progress
    - completed
* User:
  + Foreign key linking each task to a *User* with the help of ‘django.contrib.auth.models.User’ table.

Example Row in the Task Table

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| id | title | body | Created\_at | User\_id | status |
| 1 | Homework | Complete  math homework | 2024-14-04 | 3 | In\_progress |

Overview of System Workflow

