**3. Design (Creating a Blueprint of the Project)**

**Wireframe (Website Layout):**

* **Homepage**:
  + Header with navigation: Home, Dashboard, Login, Sign-Up.
  + Main area displaying a fitness tracker overview (total calories burned, total activities, etc.).
  + Sidebar with user settings and options to view goals and progress.
* **Dashboard**:
  + Display a calendar with activity logs.
  + Option to add new workouts and calories burned.
  + Graphical representation of progress (e.g. line or bar graph of workouts completed vs. goals).
* **Login/Sign-Up**:
  + Simple forms for users to sign up for a new account or log in.
  + Validation of user inputs and error handling.

**Database Structure (Simple Table):**

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| --- | --- | --- | --- |
| **Table Name** | **Column Name** | **Data Type** | **Description** |
| Users | user\_id | Integer (Primary Key) | Unique ID for each user |
|  | username | Varchar (50) | User's chosen username |
|  | email | Varchar (100) | User's email address |
|  | password | Varchar (255) | User's password (encrypted) |
| Activities | activity\_id | Integer (Primary Key) | Unique ID for each activity |
|  | user\_id | Integer (Foreign Key) | Linked to Users table |
|  | activity\_type | Varchar (50) | Type of activity (e.g., running) |
|  | calories\_burned | Integer | Number of calories burned in this activity |
|  | date | Date | Date of the activity |

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**Technology Stack:**

* **Frontend**: HTML, CSS, JavaScript
* **Backend (Future)**: Node.js or Python (for future backend implementation)
* **Version Control**: Git, GitHub (for team collaboration and versioning)

**GitHub Project Tracking:**

* **GitHub Issues**: Create issues for specific tasks, bug fixes, and features.
* **GitHub Projects**: Track tasks and progress in a Kanban-style board, divided into columns like "To Do," "In Progress," and "Done."