

# Habit Hero – Project Documentation

## 1. Project Overview

**Habit Hero** is an intuitive habit tracker designed to help users build better routines, maintain consistency, and monitor personal growth. The application allows users to create, track, and analyze habits, providing insights through analytics, streaks, and AI-powered suggestions to encourage daily productivity and personal development.

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## 2. Features

1. **Create Habits**
    - Add habits with a name, frequency (daily or weekly), category (health, work, learning), and start date.
  2. **Track Progress**
    - Mark habits as completed and view daily or weekly progress.
  3. **Analytics & Streaks**
    - Total habits
    - Success rate (completed vs total)
    - Best days (most check-ins)
  4. **Filter Habits**
    - Filter habits based on category for easier management.
  5. **AI-Powered Feature Suggestions**
    - Habit Hero uses AI to **analyze your habits and suggest improvements**, such as:
      - Optimizing habit schedules for better consistency
      - Recommending new habits based on your routine and goals
      - Highlighting habits with low completion rates to focus improvement
  6. **Responsive & Clean UI**
    - User-friendly interface for smooth habit tracking.
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## 3. Technology Stack

- **Frontend:** React.js, HTML, CSS
- **Backend:** Node.js & Express.js (if implemented)

- **Database:** MongoDB / MySQL / SQLite (depending on backend implementation)
  - **AI Tools/Library:** Basic AI logic implemented in JavaScript for habit recommendations
  - **Other Tools:** Axios (API requests), Chart.js (analytics), Git for version control
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## 4. Setup & Installation

### Step 1: Clone the Repository

```
git clone https://github.com/jishaalbert/Habit-hero.git
cd habit-hero
```

### Step 2: Install Dependencies

```
cd habit-hero-frontend
npm install
```

### Step 3: Run the Application

```
npm start
```

- The app will run at <http://localhost:3000> by default.
  - Open your browser to start using Habit Hero.
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## 5. Usage Guide

1. **Creating a Habit**
  - Click “Add Habit”
  - Enter habit details: name, frequency, category, start date
  - Save habit
2. **Marking Completion**
  - Check off completed habits in the habit list
3. **Filtering Habits**
  - Use category filters to view habits of a specific type
4. **Analytics & Streaks**
  - View your total habits, success rate, and best days for habit completion
5. **AI Feature**

- Check AI suggestions in the dashboard
- Follow AI recommendations to improve habit consistency and success rates

*(Optional: Include screenshots or small GIFs to show AI suggestions visually)*

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## 6. Project Structure

```
habit-hero/  
├─ habit-hero-frontend/      # Frontend source code  
├─ habit-hero-backend/      # Backend source code (if any)  
├─ package.json              # Frontend dependencies  
├─ README.md                 # Project README  
├─ DOCUMENTATION.md          # Project documentation  
└─
```

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## 7. Demo Video

Watch the short demo video (2–3 min) here: Demo Video

*my demo video link :*

[https://drive.google.com/file/d/1CV9LeuZycTdhiJCcdNWI\\_3fAqCcF\\_N9k/view?usp=sharing](https://drive.google.com/file/d/1CV9LeuZycTdhiJCcdNWI_3fAqCcF_N9k/view?usp=sharing)

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## 8. Future Improvements

- Implement **user authentication** for multi-user support
  - Add **reminder notifications** for habits
  - Enhance **AI recommendations** with machine learning for smarter suggestions
  - Add **habit history and export options**
  - Optimize for **mobile-friendly responsive design**
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## 9. Author

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