

## **Work Breakdown Structure (WBS)**

### **1. Project Management**

- 1.1 Sprint Planning
- 1.2 Stand-ups & Coordination
- 1.3 Sprint Reviews & Retrospectives
- 1.4 Task Board Setup (Notion Kanban)

### **2. UI/UX Design**

- 2.1 Wireframes
- 2.2 High-fidelity Mockups
- 2.3 Style Guide (colors, typography, components)

### **3. Backend Development (API-First)**

- 3.1 Authentication & User Management
  - 3.1.1 Register Endpoint
  - 3.1.2 Login Endpoint
  - 3.1.3 JWT/Session Handling
  - 3.1.4 Profile & Account Deletion
- 3.2 Activities Management
  - 3.2.1 CRUD Activities
  - 3.2.2 Categorization/Tags
- 3.3 Pomodoro Sessions
  - 3.3.1 Custom Timers
  - 3.3.2 Cycles (work/break)
  - 3.3.3 Session ↔ Activity Association
- 3.4 Notes Management
  - 3.4.1 CRUD Session Notes
- 3.5 Reports & Analytics
  - 3.5.1 Session Summaries
  - 3.5.2 Hours Spent
  - 3.5.3 Activity Trends
- 3.6 Security
  - 3.6.1 SSL Setup
  - 3.6.2 Input Validation & Sanitization

### **4. Backend Testing**

- 4.1 Unit Tests (API Endpoints)
- 4.2 Integration Tests (API workflows)
- 4.3 API Testing (Postman)

## **5. Frontend Development**

### **5.1 Core UI Components**

5.1.1 Dashboard

5.1.2 Activity List

5.1.3 Timer UI

5.1.4 Reports Page

### **5.2 API Integration**

5.2.1 Auth & Profile

5.2.2 Activities CRUD

5.2.3 Pomodoro Sessions

5.2.4 Notes

5.2.5 Reports

### **5.3 Styling & Responsiveness**

5.3.1 Mobile Layout

5.3.2 Tablet/Desktop Layout

## **6. Frontend Testing**

6.1 Component Tests

6.2 End-to-End Tests

6.3 Cross-Browser Testing

## **7. Deployment**

7.1 Acquire Web Host

7.2 SSL Certificate Installation

7.3 Backend Deployment (API)

7.4 Frontend Deployment (Web)

7.5 CI/CD Setup (GitHub Actions)

7.6 Monitoring & Error Logging

## **8. Documentation**

8.1 API Documentation (Swagger/Postman)

8.2 Developer Guide