

Final Project Proposal *devCAMP BOTTEGA 2025*

1. Project Title

TimeTracer - Basic Work Hours and Absence Management System

2. Purpose

To digitize and simplify work hour tracking and leave request management for a small business environment, replacing outdated systems (spreadsheets, paper forms, etc).

3. End Users

- **Admin:** Full access to all data.
- **Manager:** Can approve/reject requests and view team records.
- **Worker:** Can register work hours, request leave, and view their history.

4. Technology Stack

- **Front-end:** React.js with Tailwind CSS
- **Back-end:** Flask (Python)
- **Database:** PostgreSQL
- **Deployment:** render.com

5. Project Schedule

Phase	Description	Estimated Days
Phase 1: Planning and Setup	Define data models, design basic wireframes, and set up Git repository and database on Render.	2
Phase 2: Core Backend (Flask)	Create DB models, JWT authentication, and basic endpoints (time tracking and requests).	5
Phase 3: Core Frontend (React)	Implement login, dashboard, time tracking components, and request management.	6
Phase 4: Role Functionality	Develop Admin and Manager panels with approval and management capabilities.	5
Phase 5: Deployment and Documentation	Final testing, deployment on Render, and writing the README.md.	3

Total estimated days: 21 days