

TimeSlice - A Micro Time Marketplace

Project Overview

TimeSlice is a MERN-stack based platform where users can offer and book short time blocks (e.g., 30 or 60 minutes)

to exchange skills, advice, or collaboration. Users earn and spend virtual credits instead of real money, building a time-based micro-economy of help and mentorship.

This platform promotes knowledge sharing and respects the value of time.

Problem Statement

People often need quick, informal help-debugging a coding issue, feedback on a resume, or UI suggestions-but they

don't know whom to ask or feel awkward doing so without offering anything in return. TimeSlice addresses this by

enabling users to trade small chunks of their time for credits in a trusted and organized way.

Target Audience

- Students who can teach/learn from each other
- Early career professionals
- Freelancers or creators seeking collaboration
- Mentorship communities or startup hubs

Core Features

1. JWT-based User Authentication
2. User Profiles with bio, skill tags, and ratings
3. Offer available time slots (30 or 60 mins)
4. Credit-based booking system
5. Earn credits for helping others
6. Leave reviews and ratings after sessions

TimeSlice - A Micro Time Marketplace

7. Calendar view to manage availability and bookings
8. Transaction history and credit tracking
9. Optional: Email reminders and real-time chat (Socket.IO)

Technology Stack

Frontend:

- React.js
- Tailwind CSS or Bootstrap

Backend:

- Node.js + Express.js
- MongoDB + Mongoose

Other:

- JWT for Authentication
- bcrypt for password hashing
- Socket.IO (optional) for chat
- Nodemailer (optional) for notifications

Database Schema

User:

- username, email, passwordHash, bio, skills[], credits, rating, sessions[]

Slot:

- userId, dateTime, duration, description, isBooked

Booking:

- slotId, bookedBy, bookedFrom, status, review, rating

TimeSlice - A Micro Time Marketplace

REST API Endpoints

POST /signup - Register a user

POST /login - Login and receive JWT token

POST /slots - Add new time slots

GET /slots - Get available slots

POST /bookings - Book a time slot

GET /bookings - Retrieve user bookings

POST /reviews - Submit review for a session

GET /wallet - Get user's credit balance

15-Day Development Timeline

Day 1-2: Project setup, authentication system

Day 3-5: Slot creation & booking system (backend + frontend)

Day 6-7: Explore & book UI with filtering

Day 8: Credit wallet & transaction logic

Day 9: Ratings & feedback

Day 10: Calendar view

Day 11: UI validation, notifications

Day 12: Optional - Chat or Email reminders

Day 13-14: Testing, bug fixing, polish UI

Day 15: Final deployment, documentation, viva prep

User Flow

1. User signs up and completes profile with skills and availability
2. User browses others' slots by skill or tag
3. Books a slot using credits
4. Both parties are notified and prepare for session
5. After session, users leave reviews

TimeSlice - A Micro Time Marketplace

6. Credit balances are updated accordingly

Pitch for Viva or Interview

TimeSlice lets users exchange time as currency. It's not a job portal or a task manager - it's a peer-to-peer platform where people help each other in short bursts of expertise. I built it using MERN stack with credit-based

logic, booking flow, reviews, and a calendar UI to simulate a time economy. It's useful, scalable, and real.

Future Enhancements

- In-app chat with Socket.IO
- Skill-based AI recommendations
- Weekly challenges or leaderboards for top contributors
- Public profile URLs and verification badges
- Mobile-friendly PWA version