

Tennis Partner Finder - Product Requirements Document (PRD)

1. Overview

Create a simple web app that allows tennis players to:

- Sign up with basic info
- Submit their availability for the coming week
- View a list of other players with similar skill levels who are also available at the same time

2. User Stories

2.1 First-time user

- I can enter my name, email, and skill level to create an account
- I can log in afterward to access my info

2.2 Returning user

- I can log in with my email
- I can view and update my availability
- I can see a list of potential partners (same skill level, overlapping times)

3. Core Features

3.1 User Registration & Login

- Fields: Name, Email, Skill Level (dropdown from 1.0 to 5.0)
- Email is used as a unique identifier
- Optional: Use localStorage for session-like persistence

3.2 Availability Input

- UI: Weekly calendar (Monday-Sunday), input available time blocks (e.g., 5-6 PM)
- Store as structured availability:

```
{  
  "Wednesday": ["17:00-18:00"],  
  "Friday": ["18:00-19:00"]  
}
```

3.3 Matchmaking

- When a user views their dashboard, show names of other users:
 - With same skill level
 - With overlapping available times

4. Data Model

User:

```
{  
  "name": "Tony",  
  "email": "tony@example.com",  
  "skillLevel": 3.0,  
  "availability": {  
    "Wednesday": ["17:00-18:00"]  
  }  
}
```

5. UI/UX Requirements

- Responsive, mobile-friendly
- Clean layout:
 - Top nav bar: App name + "Log out"
 - Main page: Availability input + Partner matches
 - Optional: Page split into "My Info", "Availability", "Matches"

6. Tech Stack Suggestions

- Frontend: HTML/CSS + JS or React
- Backend (Optional): Node.js + Express
- Storage:
 - MVP: In-memory JavaScript object or localStorage
 - Later: Firebase or Supabase

7. MVP Goals

User signup (name/email/skill level)

Input weekly availability

See matching users with same skill level and overlapping time

No password/login system for now

No database yet - use in-memory or localStorage

8. Stretch Goals

- Support doubles (2v2 matching)
- Calendar integration (Google Calendar)
- Email notification when a match is found
- Add location filtering (same court or nearby)