# Court Finder App

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## Vision

Our vision is to create a comprehensive and user-driven platform where basketball enthusiasts can find and share detailed information about the best courts in their area. Whether you're looking for a clean and accessible court, or simply the court which is closest to your location, CourtFinder will be able to provide everything you need to make an informed decision for your next hoop session.

## Description

Court Finder holds details of different courts that a user can use to find information about their local basketball court options. They can add reviews that will then be collected and averaged to let others know how popular/useful the court is. Future implementations may include the ability for a user to add their own courts and other more robust user features.

# Project Management Tools

## Github

- A repository stored code contributions of all team members
- Backups to restore previous versions
- Repository restructuring led to some confusion when pulling updates

## Trello

- Task tracking for team member goals for each week
- Allowed easier organization and understanding of what is being completed
- Team members would sometimes forget to update tasks leading to some confusion

## Discord

- Allowed for asynchronous communications
- Easy to provide updates, share files and voice concerns

## Development Tools

### Python

- Used to create majority of backend functions
- Data validation and processing user input
- Database management and database queries

### Flask

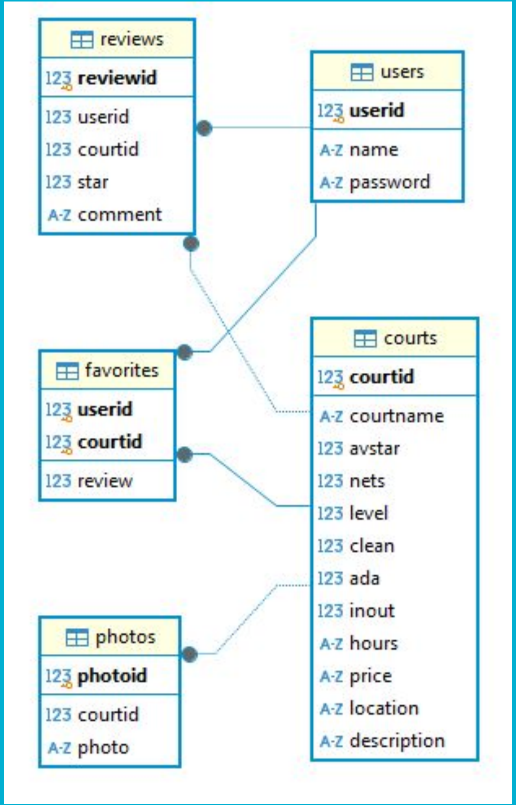
- Lightweight web framework to build the project's server-side application
- Handles multiple endpoints, such as pages for browsing, reviewing, and submitting basketball court information

### Tailwind

- Provides pre-designed, customizable UI components for faster and consistent development.
- Ready-to-use templates, easily customizable, professional design.
- Plain HTML/JS integration limits interactivity and scalability. Requires familiarity with Tailwind CSS conventions.

## Render: Website and Database Hosting

- Render was used to deploy and host the project
- Automatically built and served the Flask application upon each update to our connected GitHub repository.
- PostgreSQL database service was utilized to store and manage all project data
- Regular downtime due to inactivity



# Documentation and Testing

## Documentation:

- README.md
- WEEKLY_STATUS.md

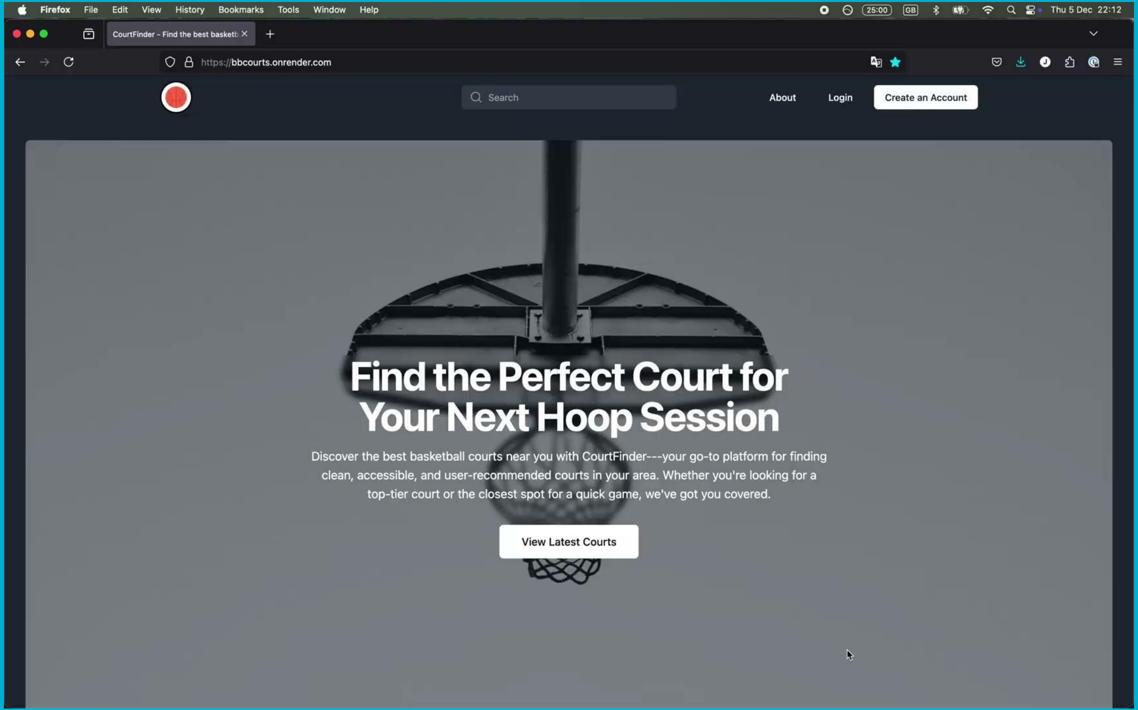
## Testing:

- Unit tests
- Database testing scripts
- PAGE_TESTING.md
- SQL_TESTING.md

## Challenges

- Time zones and times to meet up.
  - Found a consistent time for weekly meeting
  - Relied on Discord async communication
- Differing views/understandings of how things should look and work.
  - Check-ins during weekly meetings included clarifications as needed.
  - Flexibility and openness to changing features as needed.
- What tools to use and how they should link up.
  - One or two members would take a week to research and try a new tool and report back to the group in the next meeting.

# Demonstration!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Discover the best basketball courts near you with CourtFinder---your go-to platform for finding clean, accessible, and user-recommended courts in your area. Whether you're looking for a top-tier court or the closest spot for a quick game, we've got you covered.