

AstroStreet AR

Design Specifications

CS 3338 – Software Engineering Tools

California State University, Los Angeles

Group 2

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1 Packages

The following packages must be included in the Docker container for the project to run:

- **Node.js 18-alpine:** Runtime environment for frontend and backend code.
- **PostgreSQL 15:** Database used to store player data and stats.
- **npm:** .js package manager, used to install the required dependencies.

2 Dependencies

- **Frontend (React + Vite):**
 - **react** — Core UI library.
 - **react-dom** — Renders React components.
 - **vite** — Development and build tool for the frontend.
 - **axios** — Used to send requests to the backend API.
- **Backend (Node.js + Express):**
 - **express** - Web framework for handling API routes.
 - **cors** — Allows communication between frontend and backend.
 - **dotenv** — Loads environment variables such as database URLs.
 - **pg** — PostgreSQL client library used to query the database.
- **Database (PostgreSQL):**
 - **PostgreSQL 15** — Primary datastore for game data.

3 Libraries

- **pg** — Node.js PostgreSQL client.