

HKBK COLLEGE OF ENGINEERING

PROJECT TITLE: ANIME WISHLIST

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DEPT: COMPUTER SCIENCE AND ENGINEERING

DOMAIN: MERN STACK

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Animw wishlist Technical Analysis

1. Architecture & Code Organization

Project Structure

anime-wishlist/

```
├── public/      # Static assets
├── src/         # Source code
|   ├── assets/  # Images and icons
|   ├── components/ # React components
|   ├── pages/    # Route-based pages
|   └── App.jsx   # Main app file
├── package.json  # Project metadata and dependencies
└── vite.config.js # Build configuration
```

Key Component Analysis

A. [App.jsx](#) (Main Component)

State

Management:

```
const [wishlist, setWishlist] = useState([]);
const [animeList, setAnimeList] = useState([]);
const [searchQuery, setSearchQuery] = useState("");
```

API Integration:

🔗 Uses Jikan API (<https://api.jikan.moe/v4/anime?q=...>)

🔗 Axios handles HTTP requests.

🔗 Real-time search using debounced input.

Feature Implementation:

- **Wishlist Logic:**

js

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```
const addToWishlist =
(anime) => {

  setWishlist([...wishlist,
anime]);

};
```

- **Search Functionality:**

js

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```
const fetchAnime = async
() => {

  const res = await
axios.get(`https://api.jikan.mo
e/v4/anime?q=${searchQuery
}`);
```

```
setAnimeList(res.data.data);
```

```
};
```

2. Components

A. AnimeCard.jsx

- Displays anime title, image, rating, and buttons to add/remove from wishlist.

B. Wishlist.jsx

- Lists selected anime with the ability to remove items.

C. SearchBar.jsx

- Debounced input with styling and onChange logic.

```
}}
```

3. Styling System

Global Styles (index.css)

```
css
```

```
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```

```
:root {
```

```
  font-family: 'Poppins', sans-serif;
```

```
  color-scheme: light;
```

```
}
```

Component Styles:

- CSS Modules used for local styling.
- Media queries for responsiveness:

```
css
```

```
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```

```
@media (max-width: 768px) {
```

```
  .anime-grid {
```

```
    grid-template-columns: 1fr;
```

```
  }
```

```
}
```

4. Performance Optimization

- **Lazy loading** for anime images.
- **Memoized components** using `React.memo`.
- **Efficient state management** with minimum re-renders.

5 Dependency Analysis

```
"dependencies": {  
  
  "axios": "^1.6.2",  
  
  "react": "^19.1.0",  
  
  "react-dom": "^19.1.0"  
  
},  
  
"devDependencies": {  
  
  "vite": "^5.0.0",  
  
  "@vitejs/plugin-react": "^4.6.0",  
  
  "eslint": "^9.3.0"  
  
}  
  
from {
```

```
    opacity: 0;
    transform: translateY(20px);
  }
  to {
    opacity: 1;
    transform: translateY(0);
  }
}
```

6. Build & Dev Configuration

vite.config.js:

```
import { defineConfig } from 'vite';
import react from '@vitejs/plugin-react';

export default defineConfig({
  plugins: [react()]
});
```

ESLint Setup:

```
{
  files: ['**/*.js,jsx'],
  extends: ['eslint:recommended', 'plugin:react/recommended']
}
```

7. Security Measures

- No user-auth, but best practices followed:
 - Input validation for search queries.
 - Proper error boundaries for image failures.
 - Encoded API parameters to avoid injection.

8. Error Handling

- **Try-catch** in API calls.
- **Fallback image** for anime posters.
- UI messages: No results found / Add to wishlist.

9. Deployment Requirements

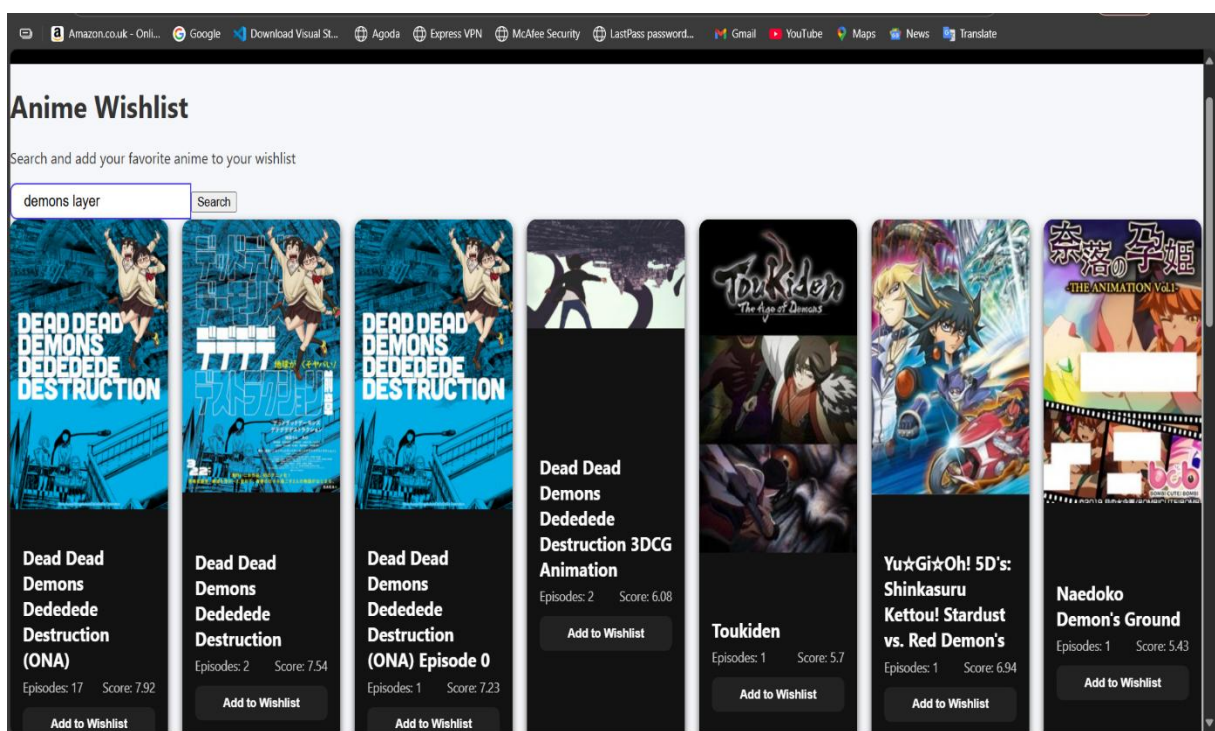
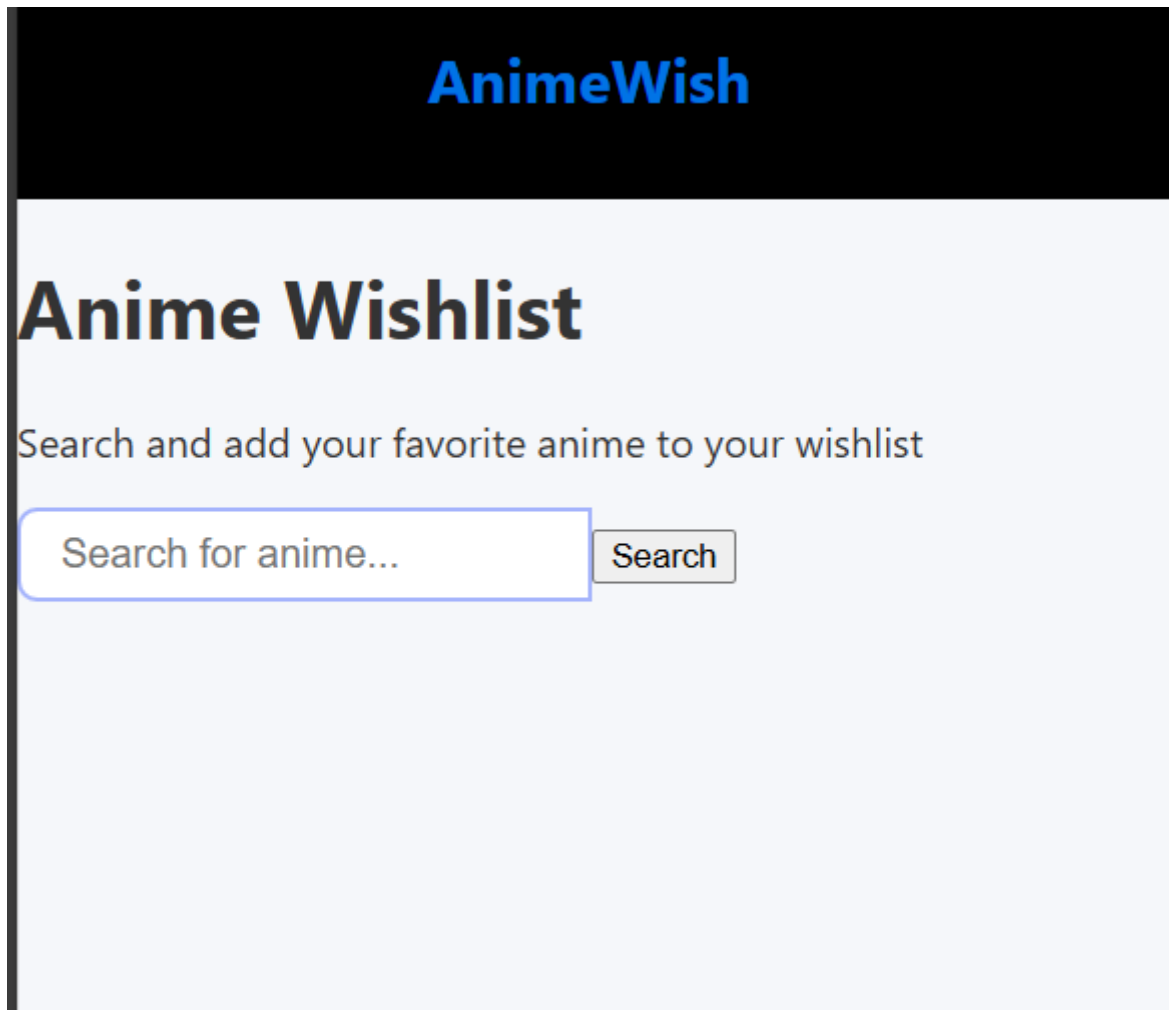
- Node.js environment.
- Jikan API (no key required).
- Deployment through Netlify/Vercel or local server.

npm install

npm run dev # Local development

npm run build # Production build

SNAPSHOTS OF THE CODE:



FINISHED

AnimeWish

Your Anime Wishlist

Search and add your favorite anime to your wishlist

AnimeWish



Login

Email

Password

Login

