

Product URL

Please sign up for an account to access our website [here](#) (or use demo account ID: sangmoonh / Password: sangmoonh)

Technical Detail

Project Overview

- Framework: Next.js (React-based)
- Styling: Tailwind CSS
- Language: TypeScript
- Deployment Platform: Vercel
- Repository Management: Git + GitHub

Usage

For End Users

1. Open <https://iconceptsorthodontics.vercel.app/>.
2. Register an account or sign-in the demo account (ID: sangmoonh / Password: sangmoonh).

For Developers

1. Install software following [Requirements](#).
2. Activate the frontend in the terminal.

```
cd IC-src/frontend
npm run dev
# yarn dev # alternatives
# pnpm dev
# bun dev
```

3. Visit `http://localhost:3000` in the browser to see the frontend page.

[!WARNING]

This project uses [LastPass](#) for password management. Do not hardcode passwords in the codebase or expose them to external stakeholders. Please contact management staff if you require relevant access.

Requirements

Prettier

This extension ensures a consistent style for frontend coding files.

- 1. Install [Prettier on VS Code](#).
- 2. Use Prettier to format files. You can also configure "Format on Save."

Dependencies

Install dependencies for JavaScript (Node.js 20.x).

```
cd IC-src/frontend
npm install
```

Repository Structure

Name	Purpose	URL
Upstream	Official team repository for collaborative development	https://github.com/FEIT-COMP90082-2025-SM1/IC-RedBack
Origin	Personal repository for deployment via Vercel	https://github.com/icredback/iConcepts-Orthodontics

All collaborative development is done on the upstream repository using feature branches and pull requests. The origin repository is used solely for production deployment via Vercel.

Workflow

See [Workflow](#) on Wiki for styles and conventions.

Deployment Manuals

Deployment via Vercel

This project is connected to **Vercel** through **GitHub integration**. Each push to the `main` branch of the origin repository will trigger a new deployment automatically via Vercel's built-in **CI/CD pipeline**.

Repository: <https://github.com/icredback/iConcepts-Orthodontics>

Automatic Deployment (CI/CD)

1. Ensure your changes are pushed to the `main` branch.
2. Vercel will automatically deploy the latest version using its CI/CD workflow.
3. You can monitor build status and live deployments directly on your [Vercel Dashboard](#).

Environment Variables

Environment variables must be configured in your Vercel project settings:

Vercel → Project Settings → Environment Variables

Important Guidelines:

- **Do NOT commit credentials** or sensitive information to Git.
- Add `.env`, `.env.local`, and similar files to `.gitignore`.
- Only expose variables using the `NEXT_PUBLIC_` prefix if they need to be available on the client side (e.g., in the browser).
- Cloudinary API **keys should not be exposed**; only use public delivery URLs (e.g., `https://res.cloudinary.com/...`).

Security Notes

- Do **not hardcode passwords** or secrets in the codebase.
- The project uses [LastPass](#) for secure password sharing. Contact the management team if access is needed.

Additional Notes

- This project is a **front-end-based** educational platform.
- There is **no custom backend** or database configured.
- User authentication is handled via [Clerk](#).
- All media content (images/videos) is hosted and optimized via [Cloudinary](#).

Design Architecture

The system architecture of the *IConcept Orthodontics* website is built on a modern serverless stack. The frontend is developed using **Next.js** and styled with **Tailwind CSS**, and it is deployed via **Vercel**. User authentication is handled by **Clerk**, while media assets are managed and stored using **Cloudinary**. Users interact with the application through their browser, and all services are seamlessly integrated into the Vercel deployment.

