

E-Cell IIIT-Delhi | Developer Documentation

A modern website built for E-Cell IIIT-Delhi using **Next.js 13 App Router**, **Tailwind CSS**, and custom components with modular structure.

E-Cell (Entrepreneurship Cell) of IIITD is a Official Student Body consist of remarkable group of students who are passionate about fostering an entrepreneurial spirit amongst their peers. In a world where startups are increasingly important for driving innovation and solving problems.

Table of Contents

- E-Cell IIIT-Delhi | Developer Documentation
 - Table of Contents
 - Project Overview
 - Tech Stack
 - Peatures of E-Cell IIIT-Delhi Website
 - UI/UX & Design
 - Structure & Modularity
 - Page Features
 - ♀ E-Cell & IIIT-Delhi Specific Additions
 - **%** Interactive & Services
 - ** Exclusive Properties
 - Full Project Structure
 - Ø package.json Summary (Yarn)
 - Development Server
 - Production mode
 - Email API
 - 🖼 Image / Video Assets
 - - 1. FAQs (Faqs. json)
 - 2. Gallery (Gallery.json)
 - 3. Initiatives (Initiatives.json)
 - 4. External Links (Links.json)
 - 5. Team Members (TeamMembers.json)
 - • 6. Testimonials (Testimonials.json)
 - 7. Video Gallery (VideoGallery.json)
 - 8. About (About.json)
 - Ø Best Practices
 - Nevelopment Guidelines
 - Code Style
 - Best Practices
 - UI/Layout Guidelines
 - 🛆 Important Notes
 - IT-Team@IIITD Guidelines
 - Configuration Requirements

- Development Notes
- Troubleshooting
 - Common Issues
 - Server Access
- Team & Credits
- Contact & Support
- Sersion Control
- Section Learning Resources

🚧 Project Overview

This is a Next.js web application bootstrapped with create-next-app, built with a component-based design, file-based routing, and modular APIs. It uses Yarn as the package manager.

Tech Stack

Category	Technology
Framework	Next.js 13+
Styling	Tailwind CSS
Animations	framer-motion, tailwindcss-animate
UI Primitives	@radix-ui/react-*,lucide-react
Icons	react-icons, lucide-react
Mail	nodemailer for server-side email sending
Utils	clsx,tailwind-merge,class-variance-authority
Language	TypeScript
Deployment	Vercel (testing)

₱ Features of E-Cell IIIT-Delhi Website

The official E-Cell IIIT-Delhi website is built not only for performance but also for longevity, modularity, and ease of contribution. Here's a list of all key features integrated into the platform:

UI/UX & Design

- Modern UI with clean design patterns
- **Propagation States Typography & Buttons** with Tailwind utility styles
- Uniform Theme, Padding, Margins across pages
- Glassmorphism NavBar with Submenu, Hamburger, and Mobile Navigation
- Responsive Design for mobile, tablet, laptop, and desktop
- Q SEO Optimization

- Wideo Background Hero Section
- Dynamic Loader Page
- O Custom 404 Not Found Page
- **X** Temp Page Templates (Temp1 Temp4) for future use

Structure & Modularity

- 🗂 One Data Organisation Principle
- S OPPS-Optimised JSON Structure
- Coding Documentation with Manual + Orientation Sessions
- Secure File System with static exports
- ■ Safe Configuration aligned with IT-Team@IIITD

🧩 Page Features

- 🔅 Intro, About Us, and Highlights Section
- **1** Team Page with organized JSON, social links & roles
- 🖼 Gallery Section with collage layout, modals, and download facility
- **A Initiatives Page** with expandable modal layout
- / Testimonials Page
- Property With Custom Thumbnails
- **FAQs Page** + Linked FAQ Section
- Contact Us Page (mail service + map + socials)
- Resources Page + Structured Resources Section

FE-Cell & IIIT-Delhi Specific Additions

- 🧠 Ihub Anubhuti Section
- IIC Achievements Section
- Incubation & Innovation Section
- 血 About IIITD Section
- **1** Invitees Section
- Collaborations Section

★ Interactive & Services

- B Newsletter Service Integration
- E Email API (via Nodemailer)
- Mail Service for Contact Inquiries
- Interactive Team Archive Viewer
- 🛉 Clickable Social Grids in Footer & Pages
- Modal Handling
- March Interactive Initiative Detail Modals

• Interactive Team Cards with Year-wise Sorting

* Exclusive Properties

• Qustom 3D Artpack – Designed in-house, exclusive to E-Cell IIIT-Delhi

Full Project Structure

```
ecell/

    ── components.json

mext-env.d.ts
— next.config.js
package.json
─ postcss.config.js
 — README.md
tailwind.config.ts
├─ tsconfig.json
 — yarn.lock
 — public/
                 # About images
   ├─ about/
    ├─ art/
                       # Art asset images (1.png - 12.png)
    - Events/
                        # Event images
    — gallery/
                       # Gallery section images
    —— img/
                       # Logos, images (e.g., 'E-Cell(1).png')
    ├─ initiatives/ # Visuals for initiatives

├─ team/ # Team asset images
                        # Team asset images
     — testimonials/ # Testimonials asset images
    ├─ Videos/
                        # Video Thumbnails (e.g., 1.avif)
    ├─ bg.mp4
                        # Background video
     logo.png
    web-app-manifest-192x192.png
    ─ web-app-manifest-512x512.png
  - src/
   — app/
                        # Next.js App Router directory
       |— арі/
                        # API routes
           ├─ sendEmail/route.js
          └─ subscribe/route.js
        — about/page.tsx
        contact/page.tsx
         — gallery/page.tsx
         initiatives/page.tsx
         resources/page.tsx
        — team/page.tsx
         — temp1-4/ # Temporary or demo pages

    favicon.ico, apple-icon.png

        — globals.css # Global Tailwind styles
       ├─ layout.tsx # Root layout
         - loading.tsx # Loading state component
         — not-found.tsx # Custom 404
         – page.tsx # Landing page
```

package.json Summary (Yarn)

```
yarn install # Install all packages
yarn dev # Run local dev server
yarn build # Build for production
yarn start # Start production server
yarn lint # Run ESLint
```

⊕ Development Server

```
https://github.com/BhatiRishabh/ecell
cd ecell
yarn install
yarn dev
```

Visit http://localhost:3000

⊕ Production mode

```
yarn build
yarn start
```

Visit http://localhost:3000

™ Email API

A Google **App Password** is a 16-character one-time password you create in your Google Account to let less-secure apps (like nodemailer email clients) access your Gmail without sharing your main Google password. To generate one, sign into your Google Account, go to **Security** → enable **2-Step Verification** if it's not already on, then select **App passwords**. From there choose the app (or "Other (Custom name)") and device, click **Generate**, and Google will show a 16-character code — copy it (remove any spaces) and paste it into your app's credential store (for example EMAIL_PASS in your

.env.local). Treat this code like a password: store it securely, and revoke it from the same **App passwords** page whenever you no longer need it. Note: App Passwords aren't available if your account uses Advanced Protection or if 2-Step Verification is disabled.

- API routes: src/app/api/sendEmail/route.js src/app/api/subscribe/route.js
- Powered by: nodemailer
- Configure credentials in .env.local

```
EMAIL_USER=<EMAIL>
EMAIL_PASS=<PASSWORD>
```

☑ Image / Video Assets

Organized neatly in /public/:

- /art → Themed poster assets
- /gallery → Images for the gallery section
- /Events, /initiatives, /Videos, /img, /team, /testimonials, /about → Specific use-case images and videos
- bg.mp4 → Background video

⋬ Data Entry & Update Guide

All dynamic content for the E-Cell IIIT Delhi website is managed through structured JSON files in src/data/. Below is a guide to safely edit each section.

1. FAQs (Faqs.json)

File Path: src/data/Faqs.json

```
[
     {
        "question": "What is E-Cell IIIT Delhi?",
        "answer": "E-Cell is the Entrepreneurship Cell of IIIT Delhi..."
     }
]
```

→ How to Add:

- Append a new object with question and answer.
- 2. Gallery (Gallery.json)

File Path: src/data/Gallery.json

→ How to Add:

- Use unique numeric ids.
- And put images in folder public/gallery mapped to id.
- eg: 1.png mapped to { "id": 1, "title": "Bid Buzz" }
- Keep titles meaningful.
- Put Compressed Images Only to minimize website load.
- 3. Initiatives (Initiatives.json)

File Path: src/data/Initiatives.json

```
{
  "id": "founders-talk",
  "name": "Founders Talk",
  "desc": "Real stories from startup founders...",
  "longDesc": "Detailed event overview...",
  "img": "/initiatives/founders-talk.png",
  "link": "/founders-talk"
}
```

→ How to Add:

- Use a slug-style id (lowercase, hyphenated).
- Add clear desc and detailed longDesc.
- Ensure image paths exist in /public/initiatives/.
- 4. External Links (Links.json)

File Path: src/data/Links.json

```
{
  "title": "Startup Registration",
  "url": "https://ecell-iiitd.in/startup-form",
  "desc": "Got a startup idea? Let`s help you scale it!"
}
```

→ How to Add:

- Ensure URLs are correct and secure (https).
- Avoid duplicate title entries (currently repeated entries exist clean up duplicates).
- 5. Team Members (TeamMembers.json)

File Path: src/data/TeamMembers.json

```
"2024": [
    "name": "Aarav Mehta",
    "role": "President",
    "img": "/team/10.png",
    "linkedin": "https://linkedin.com/in/aarav",
    "instagram": "https://instagram.com/aarav",
    "email": "aarav@ecell.iiitd.ac.in"
  },
    "name": "Ishita Kapoor",
    "role": "Vice President",
    "img": "/team/11.png",
    "linkedin": "https://linkedin.com/in/ishita",
    "instagram": "https://instagram.com/ishita",
    "email": "ishita@ecell.iiitd.ac.in"
  }
  // more members...
],
"2023": [
    "name": "Rohan Das",
    "role": "President",
    "img": "/team/2023-10.png",
    "linkedin": "https://linkedin.com/in/rohan",
    "instagram": "https://instagram.com/rohan",
    "email": "rohan@ecell.iiitd.ac.in"
  // more from 2023...
1
```

→ How to Add:

- Make Data Organise Yearwise as shown
- Use valid image paths under /public/team/.
- Include professional social handles.
- Put Compressed Images Only to minimize website load.
- 6. Testimonials (Testimonials.json)

File Path: src/data/Testimonials.json

```
{
  "name": "Ishita Sharma",
  "role": "Founder, StartupX",
  "image": "/testimonials/1.png",
  "text": "E-Cell helped me go from pitch to product..."
}
```

→ How to Add:

- Keep text authentic and first-person.
- Store images in /public/testimonials/.
- 7. Video Gallery (VideoGallery.json)

File Path: src/data/VideoGallery.json

```
{
  "id": "iydMv_BAZJE",
  "title": "E-Summit 2024 Recap",
  "thumbnail": "/Videos/1.avif"
}
```

→ How to Add:

- Use YouTube video id (not full URL).
- Add custom thumbnail path from /public/Videos/.
- Avoid duplicating the same video object multiple times. Each video should be listed only once unless showcasing variations.
- Put Compressed Images Only to minimize website load.
- 8. About (About . json)

File Path: src/data/About.json

```
{
    "name": "IIC Ranking ",
    "desc": "For the second year in a row, IIIT Delhi has secured the
prestigious 4-star rating in the Institutional Innovation Council (IIC)
rankings by AICTE, the highest distinction awarded this year! This
achievement cements IIITD`s position as a leading hub for innovation and
entrepreneurship. With a year of remarkable events, pioneering initiatives
by IIC, and the relentless efforts of E-Cell, the institute has
continuously fostered a thriving ecosystem for cutting-edge research,
startups, and industry collaborations. This recognition reflects the
```

```
ingenuity, dedication, and forward-thinking mindset that drive IIIT Delhi`s
commitment to excellence.",
    "img": "/about/6.png",
    "link": "https://iic.mic.gov.in/assets/html/index.html"
},
```

→ How to Add:

- Use a slug-style id (lowercase, hyphenated).
- Add clear desc and detailed longDesc.
- Ensure image paths exist in /public/about/.

Best Practices

- 🗸 Validate JSON with JSONLint before pushing changes.
- Navoid duplicates (title, id, or URLs).
- Ensure referenced image/video paths exist in the /public folder.
- 9 Use HTTPS links and verified handles.
- 🗸 Keep formatting clean and consistent (2 spaces indent preferred).
- Put Compressed Images Only to Minimize website load.

Nevelopment Guidelines

Code Style

- 1. Use Arrow Functions in .tsx files
- 2. Use <> </> or use client declaration for fragmentation error
- 3. Follow UI Guidelines Seriously to maintain Consistency
- 4. Use @/ alias for imports (maps to app/ directory) Example: import { InfiniteMovingCards } from '@/components/ui/infinite-moving-cards'
- 5. Never delete code portions comment them instead
- 6. Config files: Don't modify unless you understand their purpose

Best Practices

- 1. Always Refer to Tailwind Docs and NextJS Docs
- 2. Be aware of .gitignore contents
- 3. During git conflicts, always attempt to merge
- 4. Never copy-paste append or modify instead
- 5. Map directories with Navbar links
- 6. Follow layout patterns to reduce redundancy
- 7. Debug Dark Mode when using libraries
- 8. Document complex logic
- 9. Never use CLI Install for UI/Libs/Etc. use manual installation
- 10. Maintain accessibility standards
- 11. Implement responsive design

12. Involves a lot of icon and other libraries with the regular Node.js folder (contact developers for exact info about them)

UI/Layout Guidelines

- 1. Structure top and horizontal alignment using bg-black text-white font-sans min-h-screen sm:px-24 px-12 pt-40
- 2. Follow responsive design principles
- 3. Ensure dark mode compatibility
- 4. You can make copy of templates and make changes
- 5. Test across different screen sizes
- 6. General Header with Title of Any Page Template

```
{/* Header */}
     <div className="flex flex-col-reverse lg:flex-row items-center</pre>
justify-between gap-12">
       <div className="w-full lg:w-1/2 flex flex-col gap-4">
         <h1 className="text-4xl md:text-6xl font-extrabold bg-gradient-</pre>
to-br from-purple-400 via-pink-500 to-red-400 bg-clip-text text-transparent
leading-tight drop-shadow-lg">
           Gallery of Impact
         </h1>
         Dive into our vibrant visual universe, from events and posters
to raw creativity at E-Cell, IIIT Delhi.
         </div>
       <div className="w-full lg:w-1/2 flex justify-center">
           src="/art/5.png"
           alt="Gallery Artwork"
           width={400}
           height={400}
           className="w-[18rem] md:w-[22rem] lg:w-[26rem] h-auto object-
contain drop-shadow-2xl hover:scale-105 transition-transform duration-500"
         />
       </div>
     </div>
```

7. General Button Template

```
<Link href="/about">
  <button className="p-[3px] relative">
        <div className="absolute inset-0 bg-gradient-to-r from-blue-500 to-purple-500 rounded-full" />
        <div className="px-8 py-2 bg-black rounded-full font-bold relative group transition duration-200 text-white hover:bg-transparent">
        Learn More
```

```
</div>
</button></Link>
```


IT-Team@IIITD Guidelines

- 1. No external input collection through website
- 2. All website export files must be static
- 3. Limited sudo access
- 4. Don't interfere with other users' files
- 5. Don't share sensitive data and access

Configuration Requirements

1. next.config.mjs settings:

Development Notes

- 1. Be cautious with config files
- 2. Never delete code comment it out instead
- 3. Review commented portions and Exp page for future use
- 4. Follow arrow function syntax in TSX
- 5. Use layout patterns to reduce redundancy
- 6. Implement proper fragmentation handling
- 7. Test dark mode compatibility
- 8. Use proper directory mapping
- 9. Follow import alias conventions
- 10. Always Do Deployment test at Localhost before Deployment and confirm safe run before pushing into the git

★ Troubleshooting

Common Issues

- 1. Fragmentation errors: Use <> </> or use client declaration
- 2. Dark mode issues: Test thoroughly when using new libraries
- 3. Directory mapping: Ensure proper alignment with Navbar
- 4. UI Library conflicts: Use manual installation instead of CLI

5. Use ' for ' & " for ''

Server Access

- 1. VPN connection issues: Verify credentials and network
- 2. SSH access problems: Check username and IP
- 3. File permission issues: Work within user permissions

Team & Credits

Built by: KintsugiDevStudio -- Siddhant Bali & Rishabh Bhati

Contact & Support

For technical issues or access requests:

- 1. Lab Administration
- 2. IT Support: IT-Team@IIITD
- 3. Web Administration

Version Control

- Main repository: ECELL
- Archive: Contains previous versions for reference

Learning Resources

- Next.js Docs
- Tailwind Docs
- TypeScript Handbook

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