



HRDC EMPLOYEE INTRANET

DEVELOPER INFO & RESOURCES





SOURCE CODE

Obtaining Source Code

1. Visit <https://github.com/423S25/repo4>
2. Clone the repository to your local machine
Git clone <your chosen repo name>

How to Build

- Visit this documentation: <https://nextjs.org/docs/app/getting-started/installation>
- Install NextJS
- Visit this documentation: <https://flask.palletsprojects.com/en/stable/installation/>
- Install these npm modules
- npm install lucide-react
- npm install next

Gain access as to the GitHub as a contributor

Speak to your superiors to be added

FRAMEWORK DOCUMENTATION

NEXT.JS documentation	https://nextjs.org/docs
Tailwind CSS documentation	https://v2.tailwindcss.com/docs
Fly.io documentation	https://fly.io/docs/



STRUCTURE

Directory Structure:

Documentation

- Developer Doc
- User Doc
- UML
 - UML documents

Site

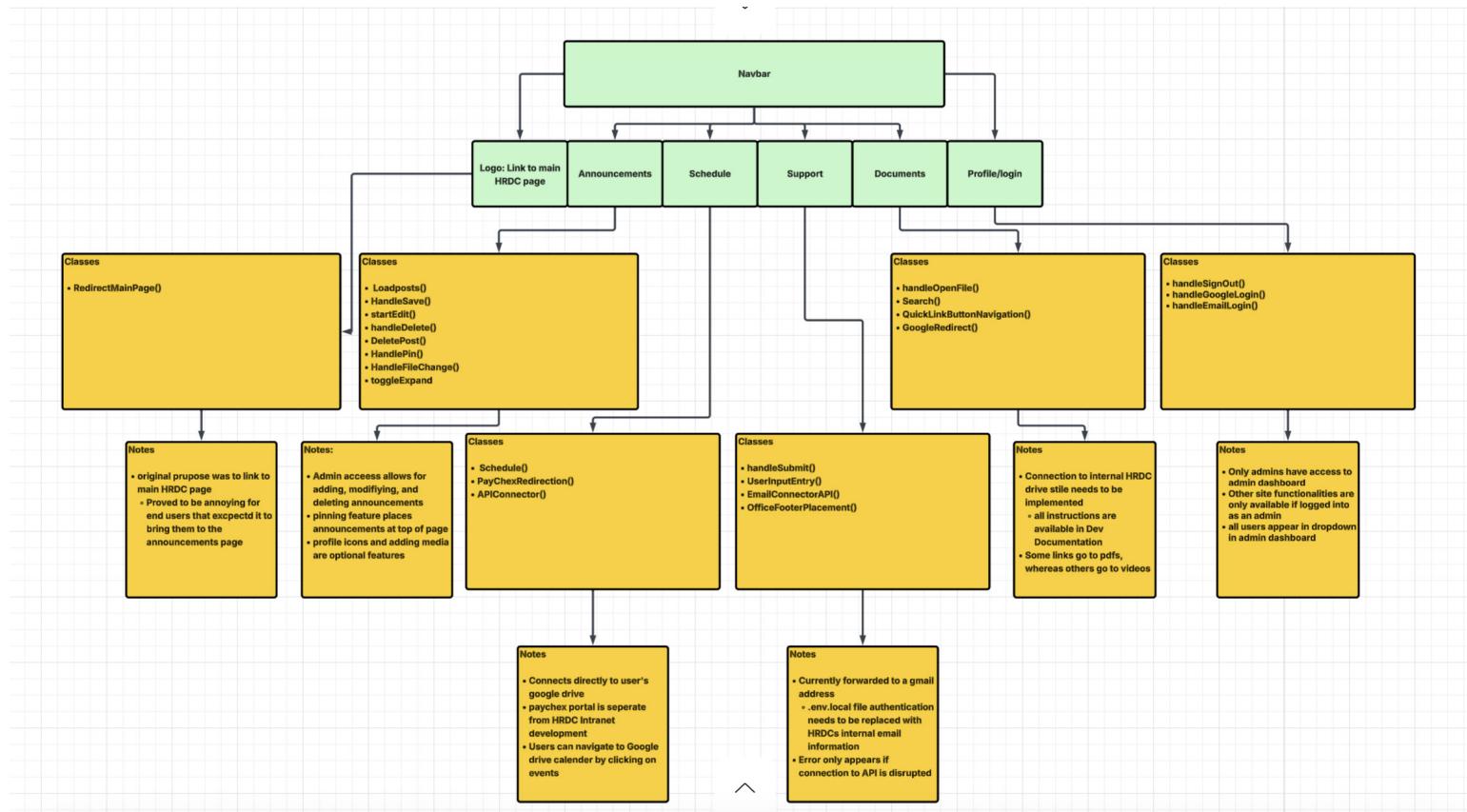
- Design
 - Images
 - Styles
 - Frameworks

docs

- NextJS
- HTML
- Misc. Code



CLASS DIAGRAM





TESTING

How to Test:

DO NOT push to Github before testing

After saving your changes, access the website <https://hrdc.fly.dev/> via flask

Test your feature to ensure it doesn't negatively impact other areas.

Have team members review your changes.

Push afterwards

Automated Build and Test:

1. Access project repository
2. Run automated test suite
 - Available through Github Actions tab
3. View passed/failed tests
 - Failed tests have error terminals that you can view

Debugging and Issues

Current Bugs will be tracked through Github Issues



TESTING PROTOCOL AND METHODS

Cross-Browser Testing

- Ensure compatibility and functionality across various browsers and devices.
- Manual testing on: Firefox (Windows), Edge (Windows), Chrome (Windows), iPhone
- Chrome (Mobile)
- Verify layout, functionality, and responsiveness across different browsers and devices.

Integration Testing

- Validate the integration of new features and changes with existing codebase.
- Feature branching: Create separate branches for new features or changes.
- Testing before committing to main: Thoroughly test new features or changes before merging with the main branch.
- Manual testing of integrated features to ensure seamless functionality.

Black-Box Testing

- Identify issues and bugs through exploratory testing.
- Manually explore the website, attempting to break or identify issues.
- Verification of expected behavior and identification of unexpected issues.

Automated Testing with GitHub

- Automate testing and validation of code changes.
- Utilize GitHub Actions for automated testing.
- Create a .yaml file to define automated tests and workflows.
- Integration with GitHub Issues for tracking and resolving identified issues.



TICKETING EMAIL CHANGES

Changing the Support Ticket Email Configuration

This section explains how to change the email address where support tickets are sent from a Gmail account to your custom domain (@thehrdc.org).

Current Configuration

The ticketing system is currently configured to use Gmail for sending support tickets. The system uses the following environment variables:

EMAIL_USER: The email username/address
EMAIL_PASS: The email password or app password
EMAIL_HOST: The email server host (currently set to Gmail's SMTP server)
EMAIL_PORT: The port used for email connections
EMAIL_SECURE: Boolean to indicate if secure connection is required
GOOGLE_API_KEY: API key for Google services

Steps to Change Email Configuration

1. Update Environment Variables

Modify your .env file with the following changes:

```
# Change from Gmail to your domain
EMAIL_USER=support@thehrdc.org          # Replace with your preferred email address
EMAIL_PASS=your_new_password            # Set the password for your domain email
EMAIL_HOST=mail.thehrdc.org             # Replace with your domain's mail server
EMAIL_PORT=587                           # Common port for SMTP (confirm with your email provider)
EMAIL_SECURE=true                        # Set to true if using SSL/TLS
```

If using a different email provider than your current domain host, you may need additional



TICKETING EMAIL CHANGES

configuration. Consult with your email provider if this is the case.

2. Testing the Configuration

After updating the environment variables:

Restart the server

Submit a test ticket through the form

Verify that the email is received at the new address

Check that confirmation/failed messages appear after ticket submission

4. Troubleshooting Common Issues

Authentication errors: Verify your username and password are correct

Connection timeout: Check that EMAIL_HOST and EMAIL_PORT are correct

SSL/TLS issues: Adjust EMAIL_SECURE as needed

Firewall issues: Ensure your server can connect to the email provider

Note

Keep the GOOGLE_API_KEY variable even if you are not using gmail, it is necessary for the functionality of the search, calendar, and drive features.



ADDING FILES TO GOOGLE DRIVE

Search Feature – Adding Files

Find (or create) your target folder in Drive

Go to <https://drive.google.com/> and sign in with the Google account that owns your folder.

Navigate to the folder you want your app to search.

In your browser's address bar you'll see a URL like:
<https://drive.google.com/drive/folders/1Kf4QwSSCj03NeD4L38RtML3HP67xYcu8>

Copy everything after /folders/ — that's your folder ID.

Tell your app about that folder

In your .env.local, add the following, changing the ID to match yours:
GOOGLE_DRIVE_FOLDER_ID=1Kf4QwSSCj03NeD4L38RtML3HP67xYcu8

Then restart your dev server: npm run dev

Share the folder with your service account

Because your API calls authenticate as a service account, that account needs permission on the folder:

In Drive, right-click the folder and choose Share.

Paste your service account email (for example:
hrdc-745@advance-copilot-457622-a0.iam.gserviceaccount.com)

Grant it Viewer access.



ADDING FILES TO GOOGLE DRIVE

Upload files into that folder

Drag & drop files onto the folder in the Drive UI, or click New → File upload.

When the upload finishes, your Next.js API call will include them.

Verify in your app

Open your search page and click the “ ” button (or submit an empty search) to run `loadAllFiles()`.

You should now see every file you added.



FEATURE RELEASE

How to Release a Version:

Consult your PM

After consulting, speak with your clients about the changes

Learn what they are satisfied/dissatisfied with

Update documentation to reflect changes

Push new version to Github

(Optionally) Create blog release overviewing new features



FURTHER QUESTIONS AND SUPPORT

TROUBLESHOOTING AND SUPPORT

For internal assistance, contact the support team at [HRDC IT team]

For Developer support, contact loganschuman406@gmail.com.

GOOGLE DRIVE HELP AND SUPPORT

<https://support.google.com/drive/?hl=en#topic=14940>

GOOGLE FIREBASE DOCUMENTATION

<https://firebase.google.com/docs>

FRAMEWORK DOCUMENTATION/SUPPORT

NEXT.JS documentation

<https://nextjs.org/docs>

Tailwind CSS documentation

<https://v2.tailwindcss.com/docs>

Fly.io documentation

<https://fly.io/docs/>

TEST LOGIN DETAILS

email: Test@TestEmail.com
password: Testpassword12!

GOOGLE FIREBASE

email: hrdcticketing@gmail.com
password: enP1None!



HRDC

CELEBRATING 50 YEARS
OF BUILDING A BETTER COMMUNITY