

# THE DRURY MIRROR PROJECT



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Software Engineering

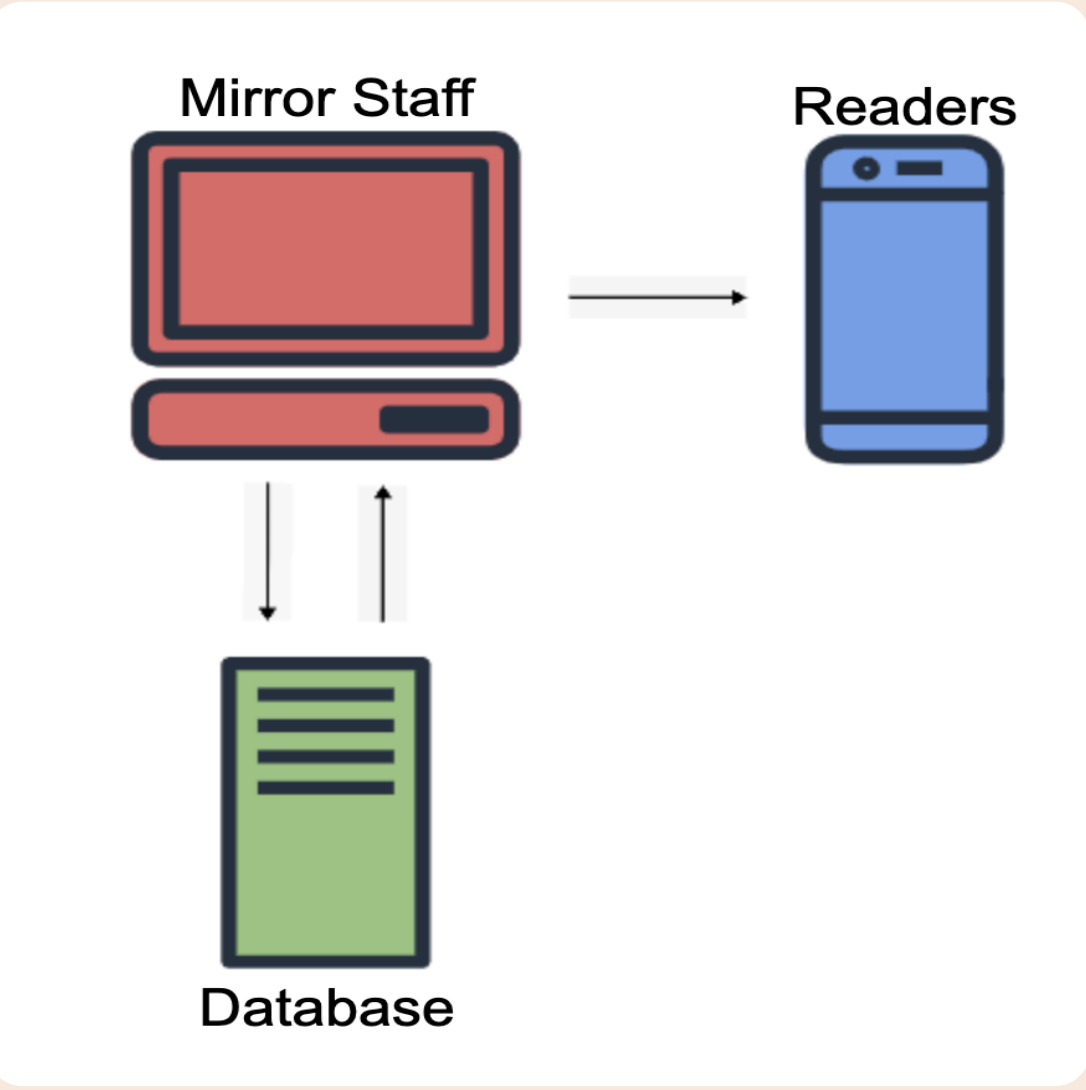
## Abstract

The Drury Mirror, the campus news organization, desires to reach a broader audience using contemporary technology. The Drury Mirror currently struggles with removing accounts, resetting passwords, and smoothly editing articles. The Drury Mirror project addresses these needs by providing a mobile application, and a web portal for the journalistic process.

- The mobile application allows users to read and search for all published articles from the Drury Mirror.
- The web portal allows the Drury Mirror staff to easily write, edit and publish articles to the mobile application.
- Staff profiles: writer, copy editor, editor-in-chief, and advisor, each with varying roles.

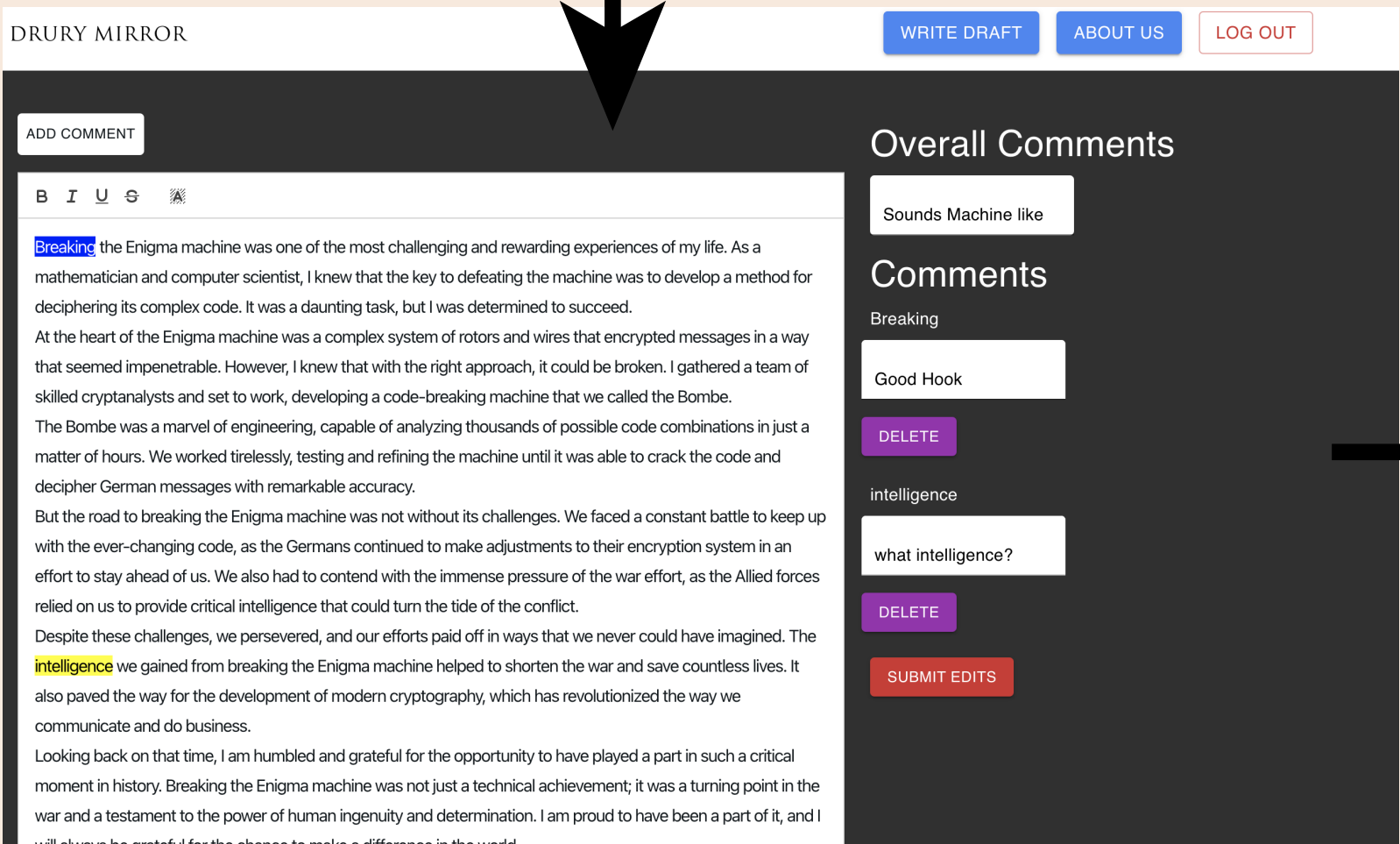
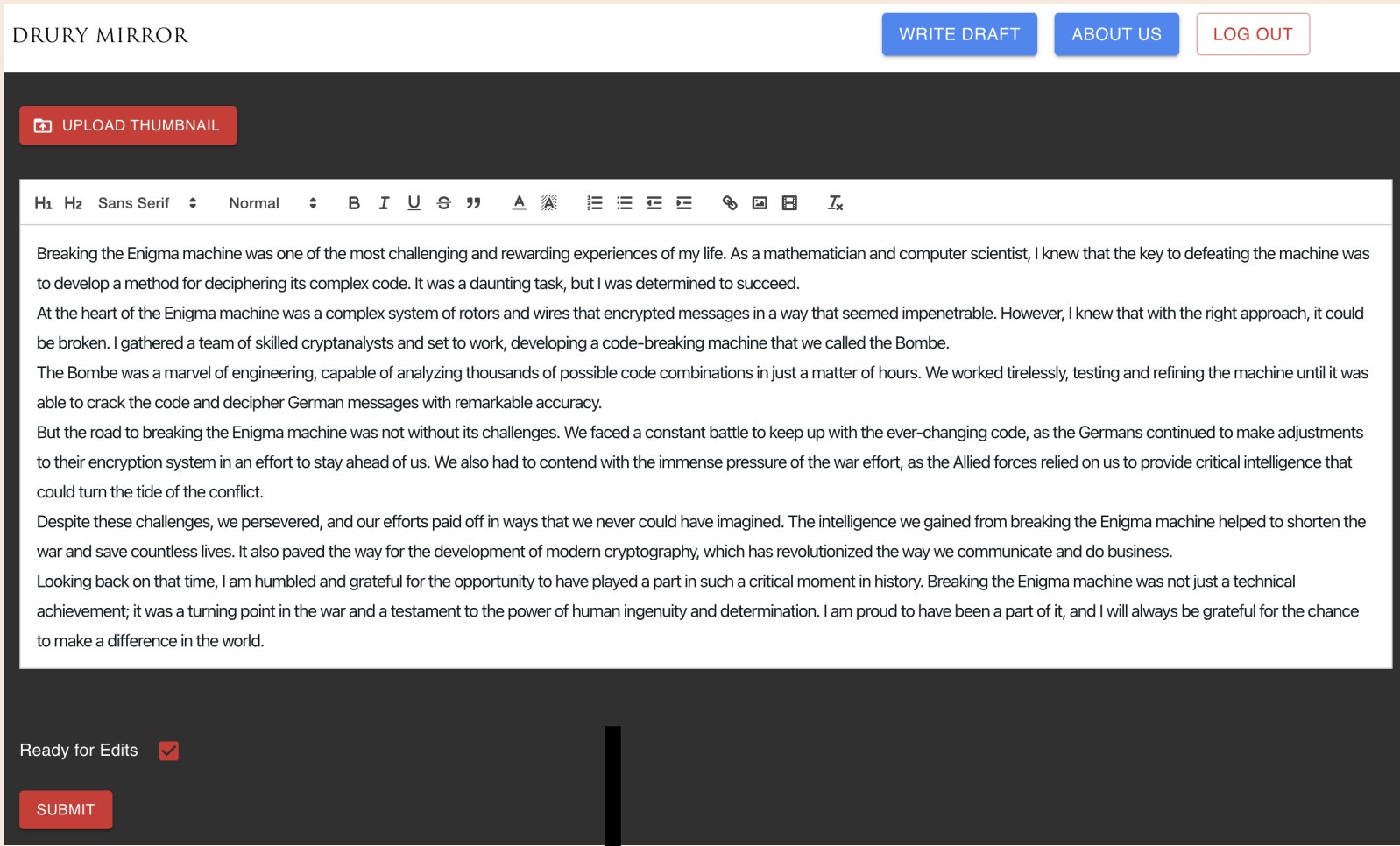
The web portal is built using the Next.js a server-side rendering framework that enables fast and responsive user interfaces. It also makes use of MySQL to retrieve and manage data such as user accounts and articles. This allows the Drury Mirror to store and archive all past, present and future articles and users. For the mobile application, Next.js was used with Capacitor to create a cross-platform application that works seamlessly on both iOS and Android devices.

## Architecture



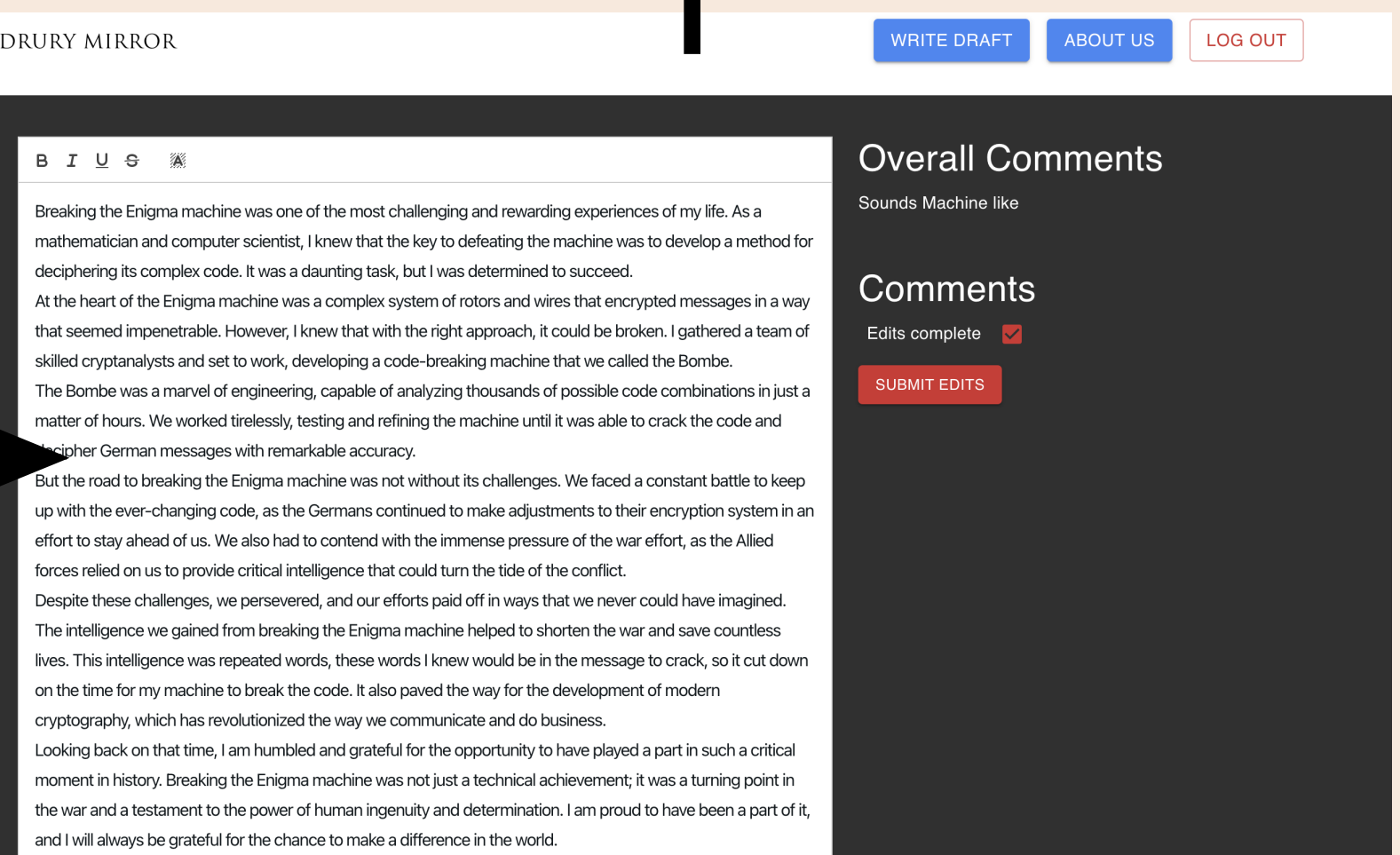
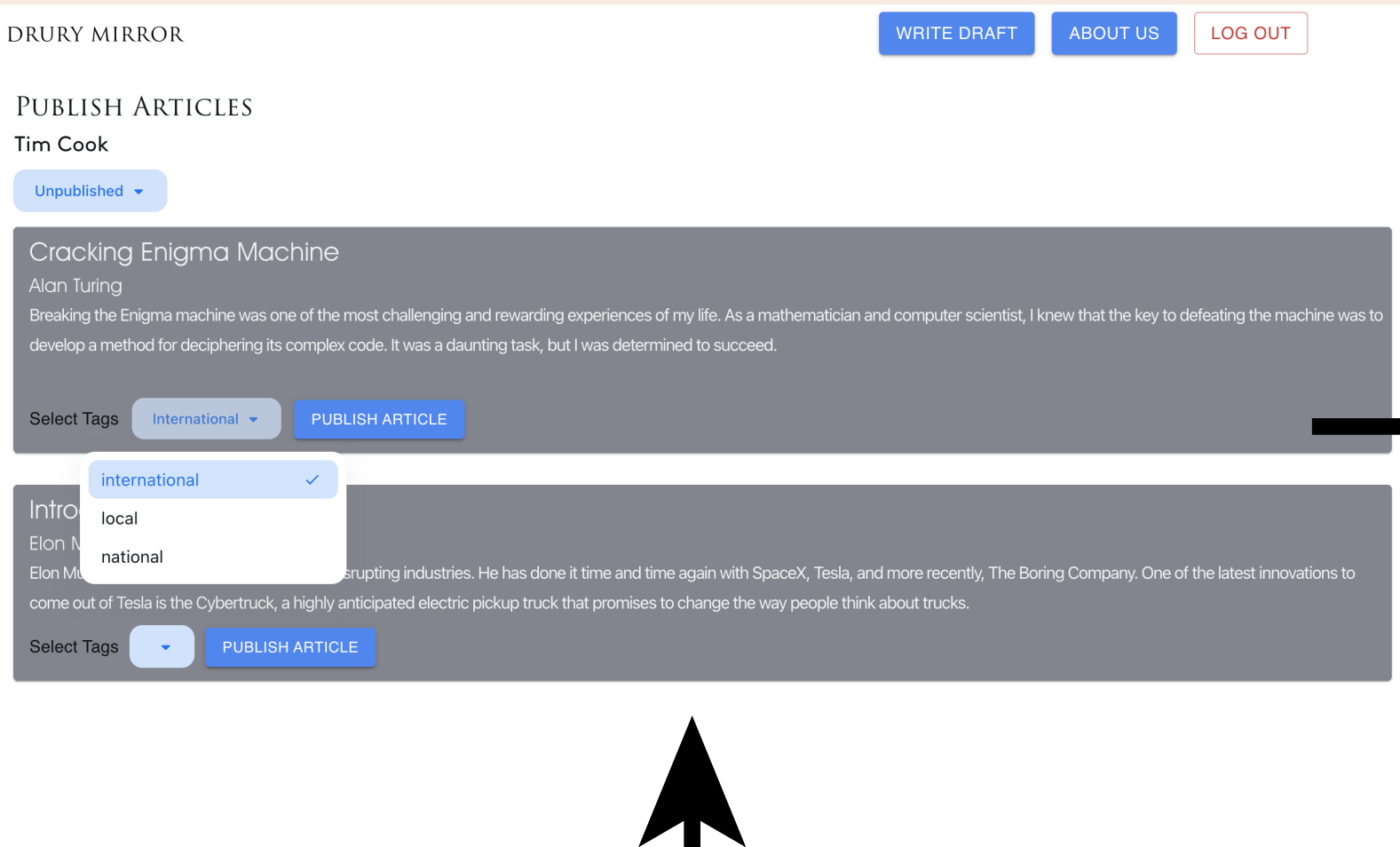
## Article Lifespan

### Step 1 - Writing



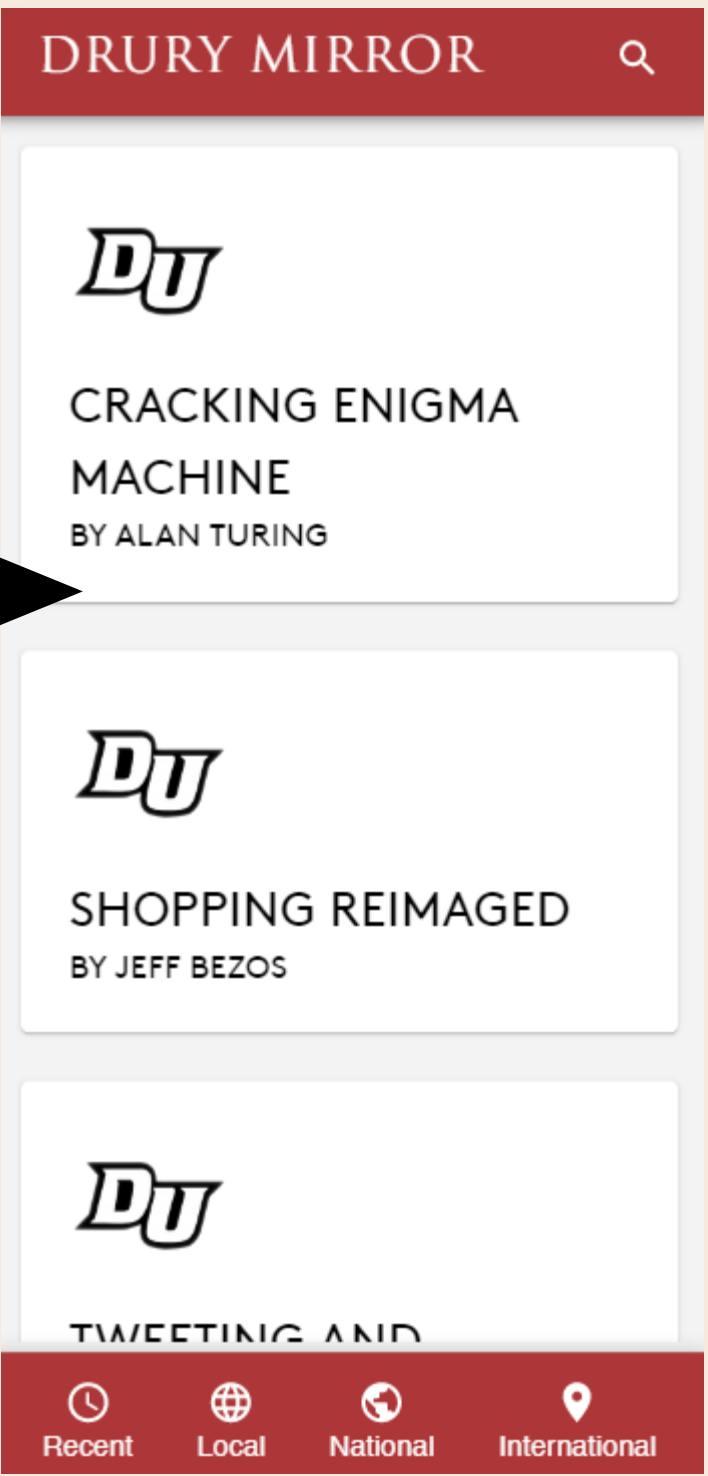
### Step 2 - Commenting

### Step 4 - Publishing



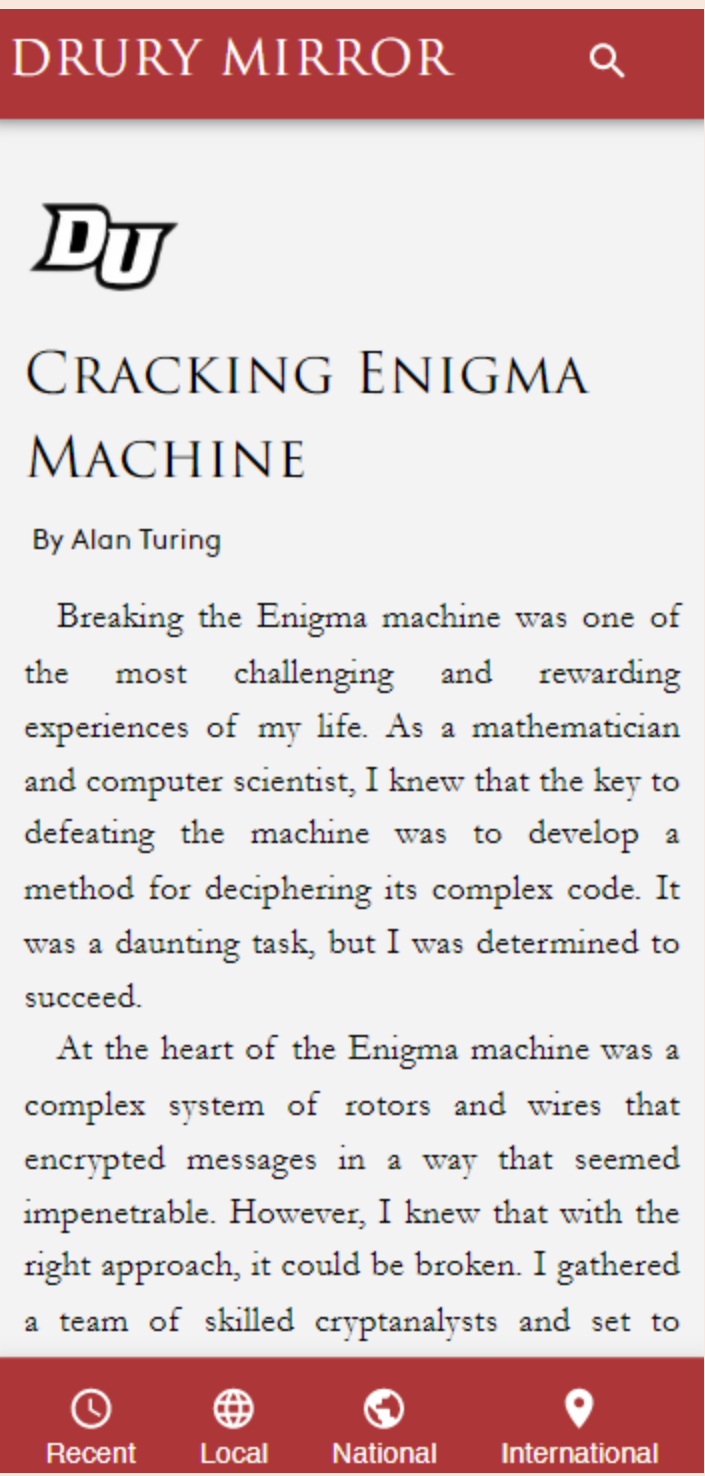
### Step 3 - Editing

## Mobile App



### Article Feed

The article feed can be sorted by most recent, local, national, and international news.



### Article Page

Each article page is made via a slug, giving each article its own unique page for viewers to enjoy.

## Conclusion

Overall, The Mirror Project involved the development of a mobile application using Next.js and Capacitor, along with a web portal made in Next.js, was a challenging yet rewarding experience. The team had to navigate through the complexities of working collaboratively, managing different schedules, and coordinating tasks efficiently. The team also learned version control and how important it is to a project. For the future of The Mirror App we hope to have the Drury Mirror complete move to using the portal. We also hope to someday have the mobile application downloadable from the App Store and Google Play Store. Ultimately, The Mirror Project provided very valuable software engineering experience to each of us.

## User Management

First Name	Last Name	Email
<input type="text" value="First name *"/>	<input type="text" value="Last name *"/>	<input type="text" value="Email *"/>
Password	Confirm Password	Roles
<input type="text" value="Password *"/>	<input type="text" value="Confirm Password *"/>	<input type="text" value="Choose Role"/>
<input type="button" value="CREATE USER"/>		

The Mirror’s manager can create users for new article writers, editors, etc. This enables the ability to create new accounts each year, with varying rules.

If users forget their passwords, there is an option on the portal to reset their password. An email is sent that allows the user to change their password.