Web Development Project

Dublin Analytica

Ashraf Ali, Cameron Kenny, Evan Brierton, Nikita Skobelevs

General Requirements

Aa Requirement	≔ Contributions
View the datasets currently on offer	Ashraf Ali Evan Brierton
View details about a particular dataset	Ashraf Ali Evan Brierton
Add a set of datapoints to a shopping cart	Cameron Kenny Evan Brierton
Change the number of the selected datapoints in the shopping cart	Evan Brierton
Remove a selected dataset from the shopping cart	Cameron Kenny Evan Brierton
Create a customer account	Evan Brierton Nikita Skobelevs
Log in to their account	Evan Brierton Nikita Skobelevs

Customer Requirements

Aa Name	≡ Comments	≔ Contributions
Go to the checkout to purchase orders in their shopping cart		Evan Brierton
Use a (fake) payent portal to pay for their goods	Card checksum is validated. Visa and MasterCard are accepted.	Ashraf Ali Cameron Kenny Evan Brierton
View their order history		Ashraf Ali Evan Brierton

Owner Requirements

Aa Name	≔ Contributions
Login to the marketplace	Evan Brierton Nikita Skobelevs
Add datasets to the marketplace	Evan Brierton Nikita Skobelevs
Hide datasets to make them no longer available	Nikita Skobelevs
View all orders	Evan Brierton Nikita Skobelevs
Change the state of orders	Evan Brierton Nikita Skobelevs
Edit dataset details	Evan Brierton Nikita Skobelevs

Documentation

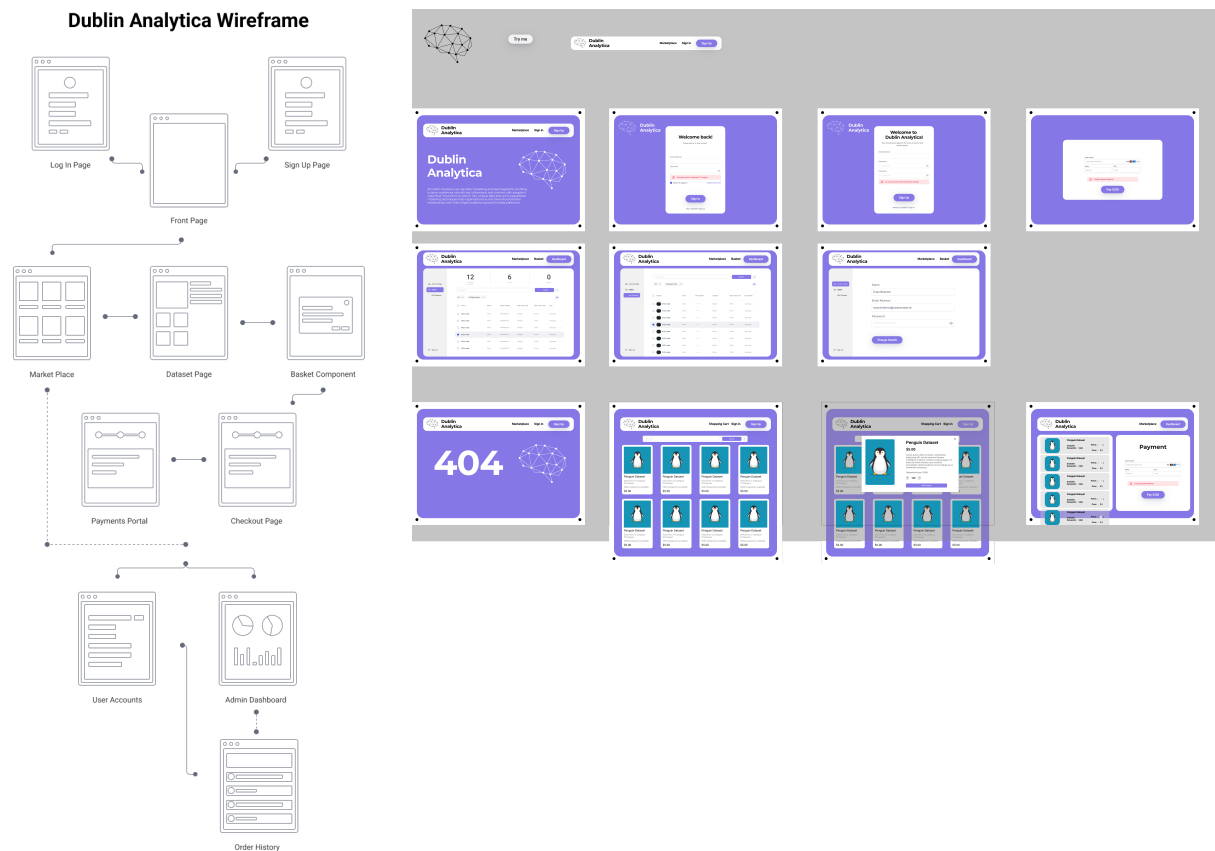| Aa Name	≡ Comments	≔ Contributions
Team registration		Cameron Kenny
Progress report		Cameron Kenny
Video demo	Available at: https://www.youtube.com/watch?v=n8-RlsLtGAM	Ashraf Ali
Wireframe design of the project		Ashraf Ali
Final report		Ashraf Ali

Extras

We have a few extras in this project:

- Secure Token Authentication & Passwords
  - Using JWT Tokens, each user session is verified both client and server side to ensure secure authentication. Every request for data/user information is made over a secure API call.
  - Developed by Nikita Skobelevs, Evan Brierton.
- Change Account details
  - Once a user account is created, a user has the ability to change details such as email, password and their name
  - Developed by Ashraf Ali, Evan Brierton, Nikita Skobelevs.
- Admin Quick stats view.
  - In the admin dashboard there are quick stats under orders for revenue, total orders and pending orders, and under data for Total Datasets, Total Datapoints and average datapoint
  - Developed by Ashraf Ali, Evan Brierton
- 404 Page with a quick return to homepage or marketplace
  - Any point there is an error with the page or a user clicks the wrong link
  - Developed by Ashraf Ali, Nikita Skobelevs
- Download link dynamically generates zip files containing each dataset for an order.
  - After an order has been completed, the datasets (including the exact datapoints asked for), is delivered to the user in .zip file available to download.

Comments

We encountered a few bugs during the recording of our video, which were all fixed before the final submission.

Wireframe

Dublin Analytica Wireframe

How to Run & Install Project

Premade accounts

Admin: alice@gmail.com password: Alice&bob1

User: user@gmail.com password: Alice&bob1

User: bob@gmail.com password: Alice&bob1

Run `./run.sh` OR alternatively checkout the website being hosted at dublinanalytica.ie.

Reflections

Throughout the project we've gained an understanding and appreciation for API's, Spring Boot, React and a parallel workload. From the beginning we attempted to divide the project into frontend(user-facing) and backend tickets. We used linear.app to assign issues to various team members and hold ourselves accountable to progress.

It worked well to begin with, giving us a clear path to success.

Our Auth framework(API used to communicate between frontend and backend) wasn highly sophisticated and comparable to what's used in industry, we'd consider that an achievement as a whole.

That being said, during the last few days of term, we were bogged down with other projects, exams and assignments, and that led to a breakdown in communication, ultimately meaning we'd need an extension to finish the assignment.

In hindsight we wish we would've done more cross platform work and had different members work on more than one aspect of the project(i.e. work on both frontend and backend), but time-constraints and a looming deadline meant that each person played towards their strengths.