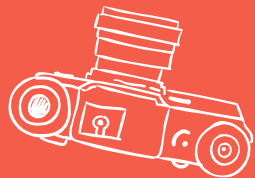


# THE TECH LIBRARY

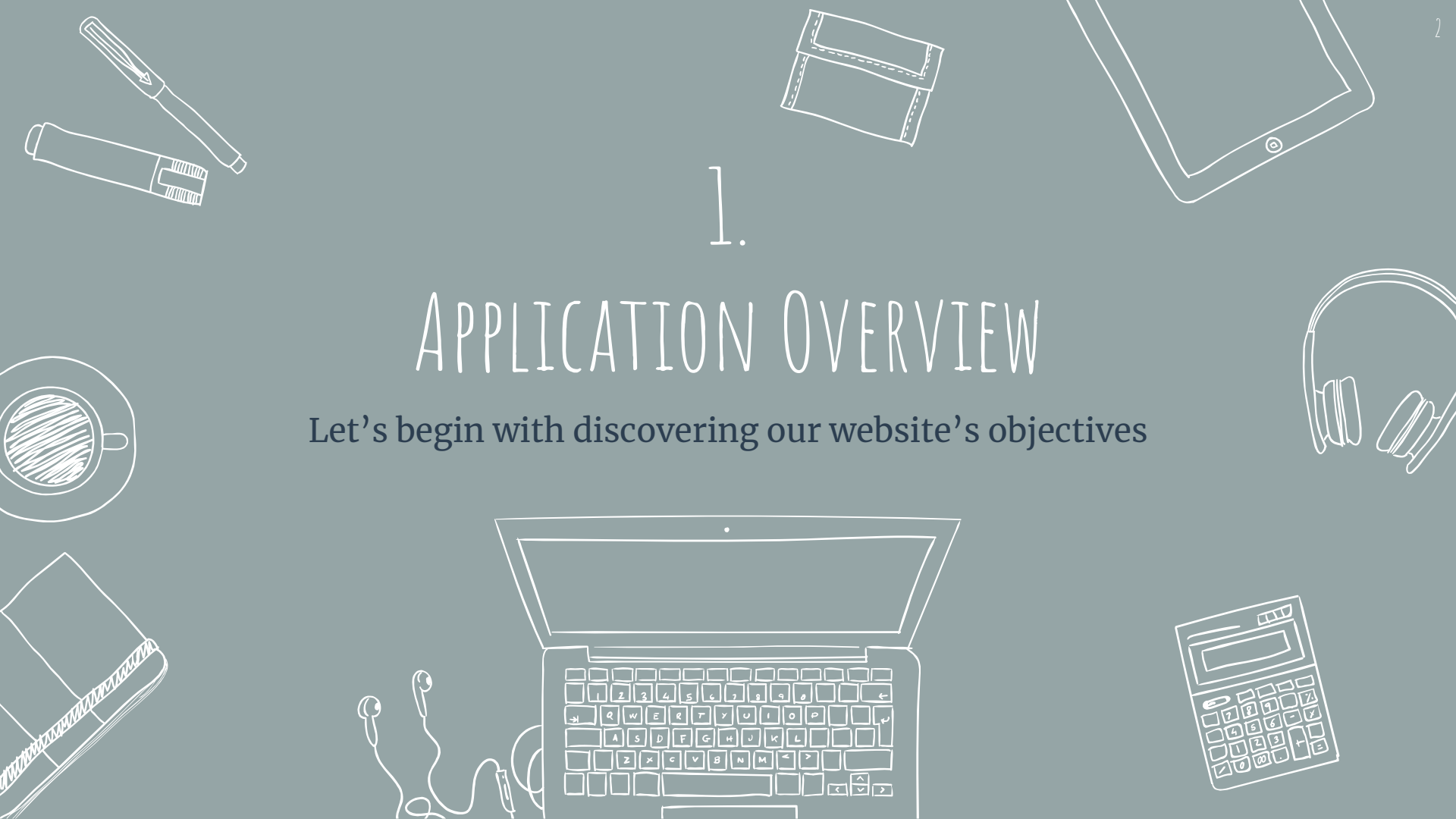
PROJECT BY: ANDREW CONNELL, BEN KOHAV, CHARLOTTE GORGEMANS,  
ROXANNE MANTHY, RYAN HANNIGAN, SEAN SHI



1.

# APPLICATION OVERVIEW

Let's begin with discovering our website's objectives

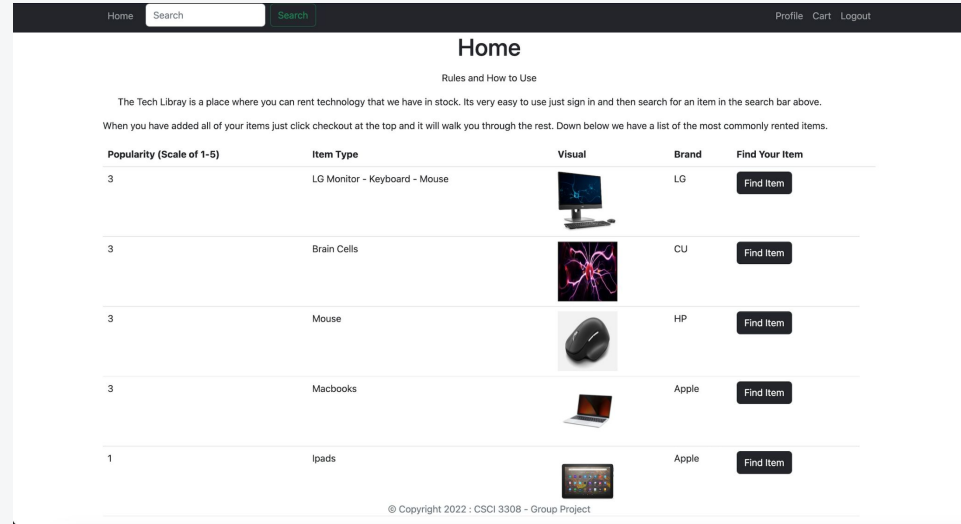


# APPLICATION OVERVIEW

## OBJECTIVE

Provide a forum for students to borrow essential school materials and equipment for day use.

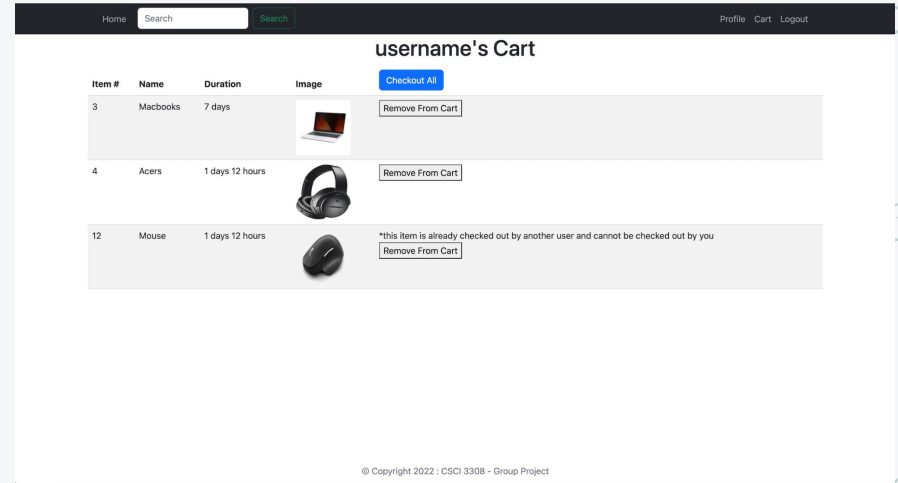
Scenario: Anna is a commuting student and has left her laptop charger at home. Our Tech Library application allows Anna to connect with a resource center on campus to borrow a charger for the day.



# APPLICATION OVERVIEW & WEBSITE FLOW

## MISSION EXECUTION

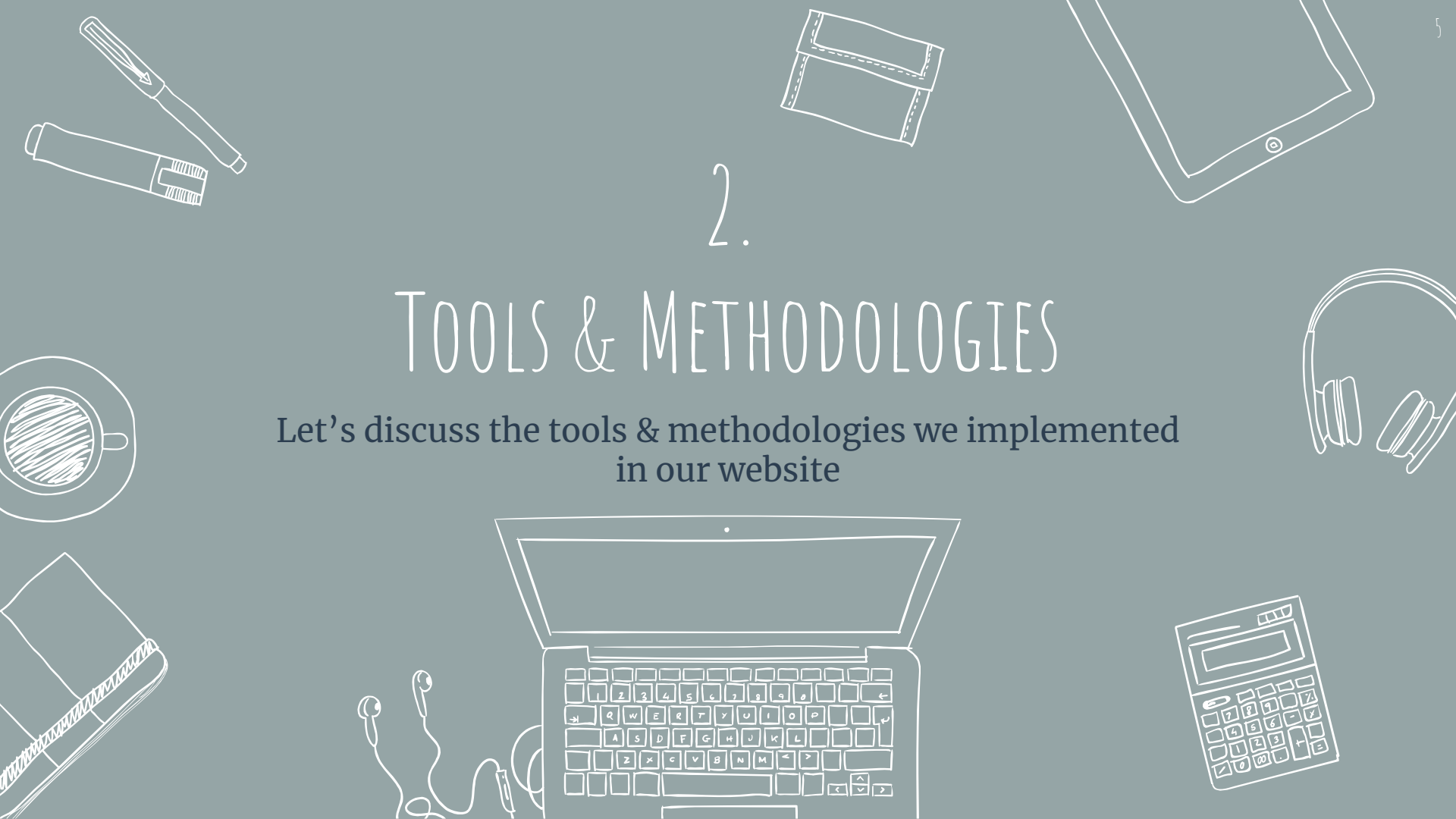
1. Register & Log In
  - a. User gains access to nav bar and home page
2. Home
  - a. User browses popular items & can select an item
3. Search
  - a. User can search for a specific item
4. Cart
  - a. User is redirected to a page, displaying their cart & selected items
5. Profile
  - a. User can modify their profile info and view what they have checked out.
6. Logout
  - a. User logs out of website & secures their account

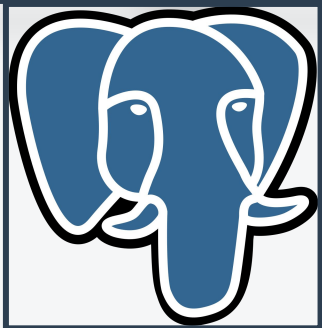


2.

# TOOLS & METHODOLOGIES

Let's discuss the tools & methodologies we implemented  
in our website





The  
Tech  
Stack

## TOOLS USED IN DEPLOYMENT

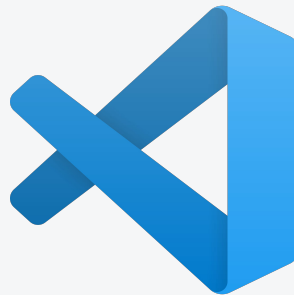
### OVERVIEW

- EJS: 7/10
  - Easier creation of pages
  - Easier rendering of backend to frontend
  - Issues with syntax and unexpected behavior(html vs js)
- NodeJs: 8/10
  - APIs
  - Minor issues with syntax
- Postgres: 9/10
  - Functions
  - Useful data types
  - Easy data manipulation
- Docker: 7.5/10
  - Great service for running our application.
  - Issues with opening & initially running Docker.

# TOOLS USED IN THE DEVELOPMENT STAGE

## OVERVIEW

- **GitHub: 8.5/10**
  - Great service for version control.
  - Merge Conflicts
- **VS Code: 9/10**
  - Code is presented in a readable format, smoother programming process.
  - Easier Merge Conflicts
- **GroupMe: 8/10**
  - Easy to view all members' views.
  - No meeting support





# METHODOLOGIES OVERVIEW (AGILE)



## techLibrary Board

View 1 + New view

Filter by keyword or by field

### Ice-Box 2

groupProject #36 ...  
Rendering pages between actions work without error and data is updated between them

groupProject #46  
Help Page  
Support 5

+ Add item

### Todo 2

groupProject #47  
Data for profile page (first name, last name, username, etc) should render  
Profile 3

groupProject #67  
modals for profile page should be updated  
Profile

+ Add item

### In Progress 5

groupProject #5  
Profile  
Profile 6

groupProject #3  
Home Page

groupProject #71  
Item Information After Search  
Search 4

groupProject #87  
Profile allows edits to name and such  
Profile 4

+ Add item

### Done 26

groupProject #90  
Check for overdue items before checkout  
Checkout 3

groupProject #17  
Cart page - Get the base functionality shown up on our local host

groupProject #43  
Make the data of users items render  
Checkout 4

groupProject #63  
Return Item  
Profile 8

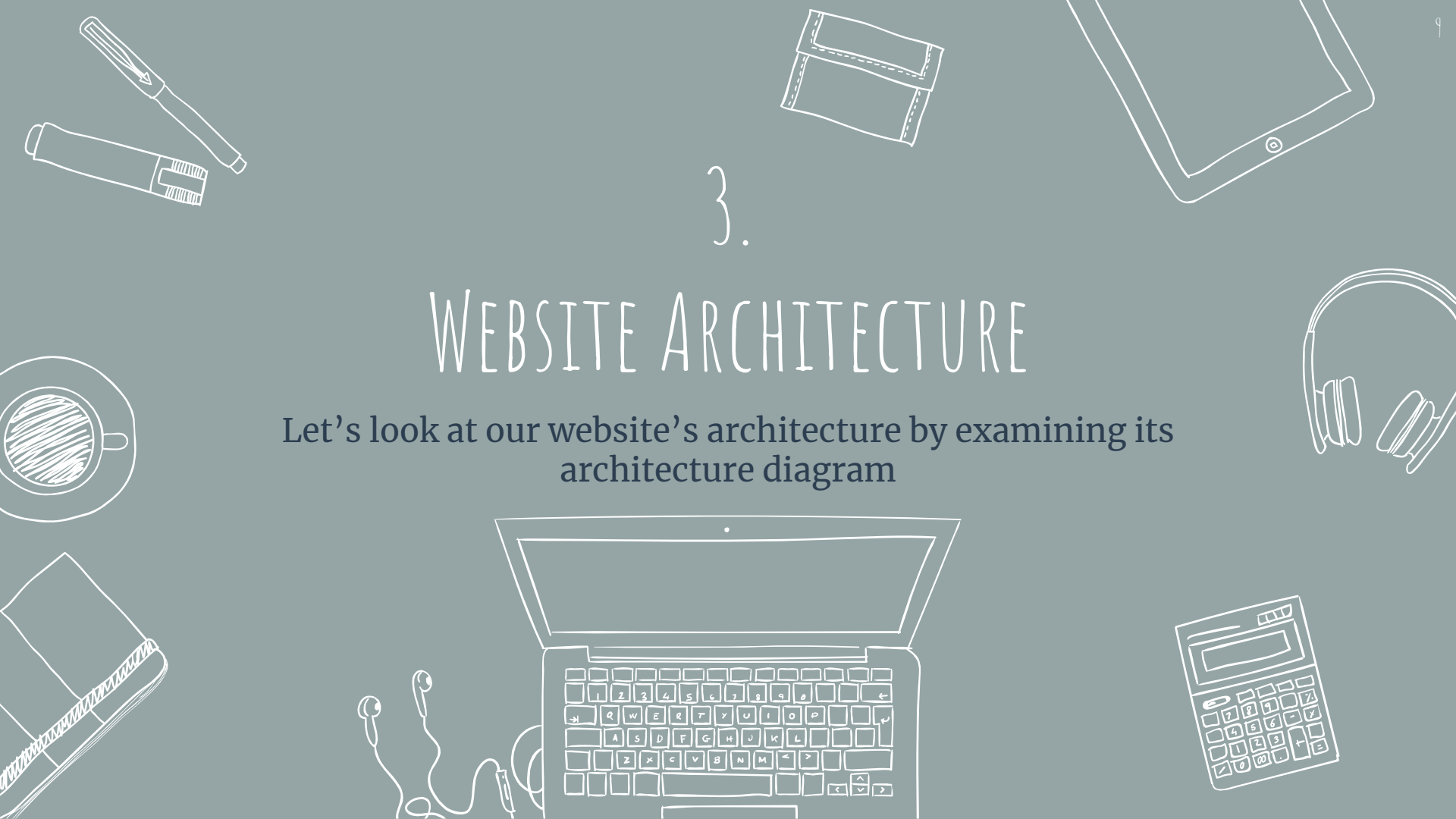
+ Add item



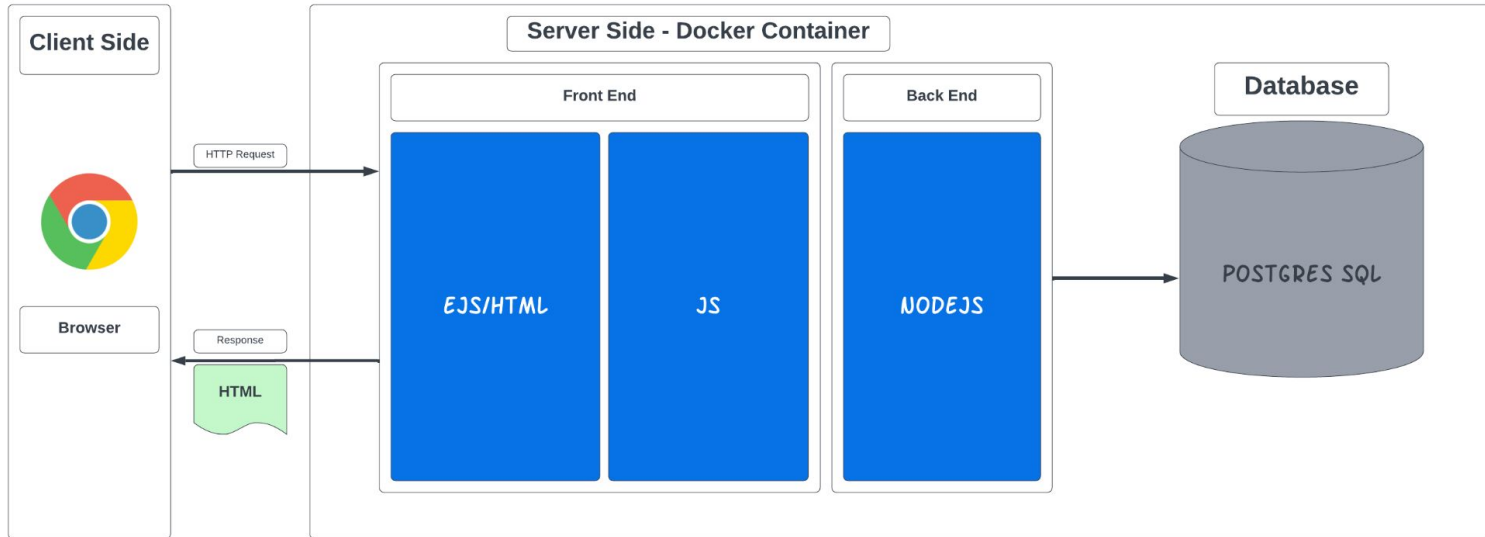
3.

# WEBSITE ARCHITECTURE

Let's look at our website's architecture by examining its architecture diagram



# WEBSITE ARCHITECTURE

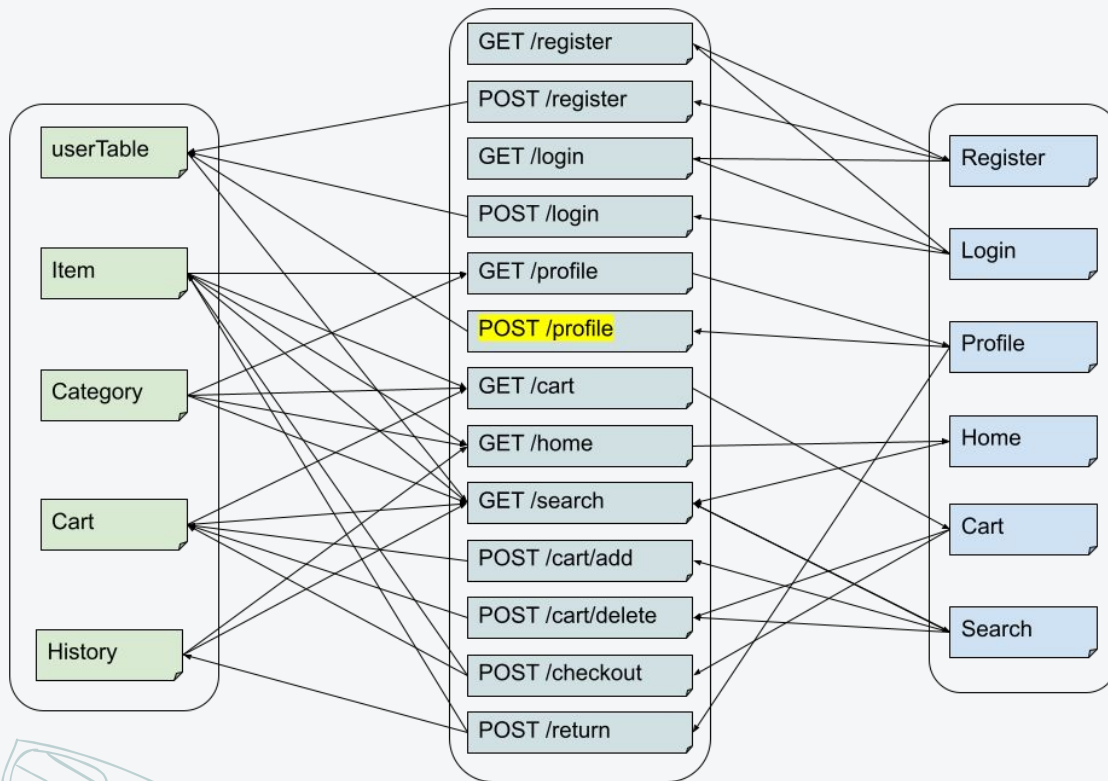


# WEBSITE ARCHITECTURE

Database (Postgres)

API (Node JS)

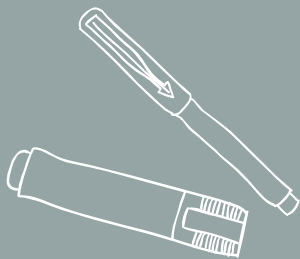
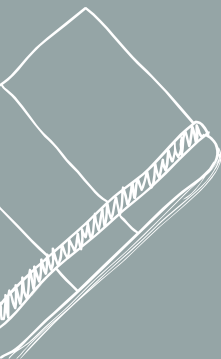
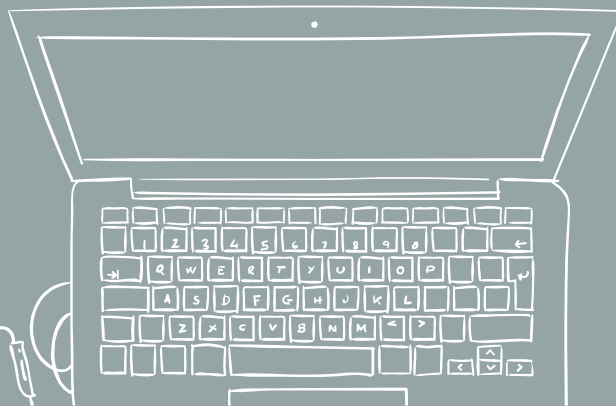
Pages (EJS)



4.

# CHALLENGES

We'll analyze the development of this website by debriefing our challenges



## CHALLENGES DURING DEVELOPMENT

### CHALLENGES

- Deciding on a database & its organization
- Integrating our pages & combining all code together
- Determining where to store the data for the cart
- Discovering methods to develop a search functionality

### RESOLUTIONS

- Maintaining open communication
  - Frequent updates via groupme
  - Asking for team's suggestions on questions
  - Clearly defined roles & responsibilities
- Seeking help & resources when needed
  - Visiting office hours
  - Collaborating with team members on tasks



# LIVE DEMO!

We'll discover our website's full functionalities by a live demo!