



StudyTogether

Our Team



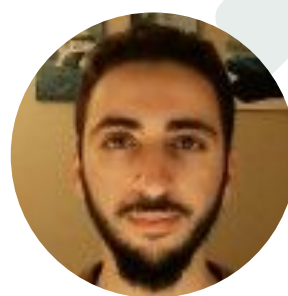
Daniel Laufer
Front-end Developer



Maor Gornic
Full Stack Developer



Milind Vishnoi
Front-end Developer



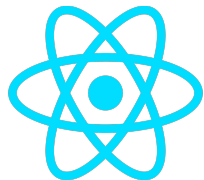
Mohamed Issa
Backend Developer



John Lewczuk
Full Stack Developer

Daniel Laufer

Front-end Developer



chakra



- Developed front-end features using React, Chakra+UI, and Redux, etc
- Integrated Google Maps into our app.
- Responsible for the front-end implementation of various core features of our app

Mohamed Issa

Back-end Developer



express

- **Backend-end**
 - MongoDB, NodeJS + express
- Notification system
- Authorization & Authentication on the backend

Maor Gornic

Full Stack Developer



- **Front-end**
 - React, Chakra UI
 - Study group view
- **Back-end**
 - MongoDB, NodeJS
 - Private study groups functionality
 - Invite users to study groups

John Lewczuk

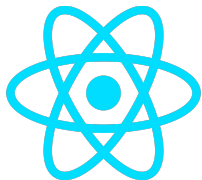
Full Stack Developer



- **Front-end**
 - Email verification status
- **Back-end**
 - Email verification, recurring study groups

Milind Vishnoi

Front-end Developer



chakra

- Developed front-end features using React and Chakra+UI
- Created user page, study group components, following/follower page, etc.

Our App

Studying with others is an effective way of preparing for assessments

however it can be challenging to find others to study with at times.

*That's where **StudyTogether** comes to the rescue!*



Our App

- StudyTogether facilitates the process of forming study groups at universities across Canada
- Students can easily form study groups that others can join
- Users can build connections through the app
 - Ability follow other users and get notified when they create a new group
 - Personalized profiles
 - Etc.
- A much, much more!

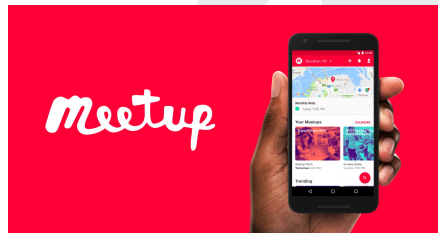


Demo Time!

Our Competition

- Eventbrite
- Meetup
- Eventzilla
- Splash

eventbrite



splash



What makes us unique?

- **Narrow scope**

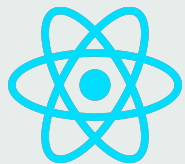
- Only used by students and tutors
- Not clogged with irrelevant events

- **Student focused**

- Allows us to create features just for students
- Hosting office hours, etc.



Technologies Used



chakra



Firebase



mongoDB®

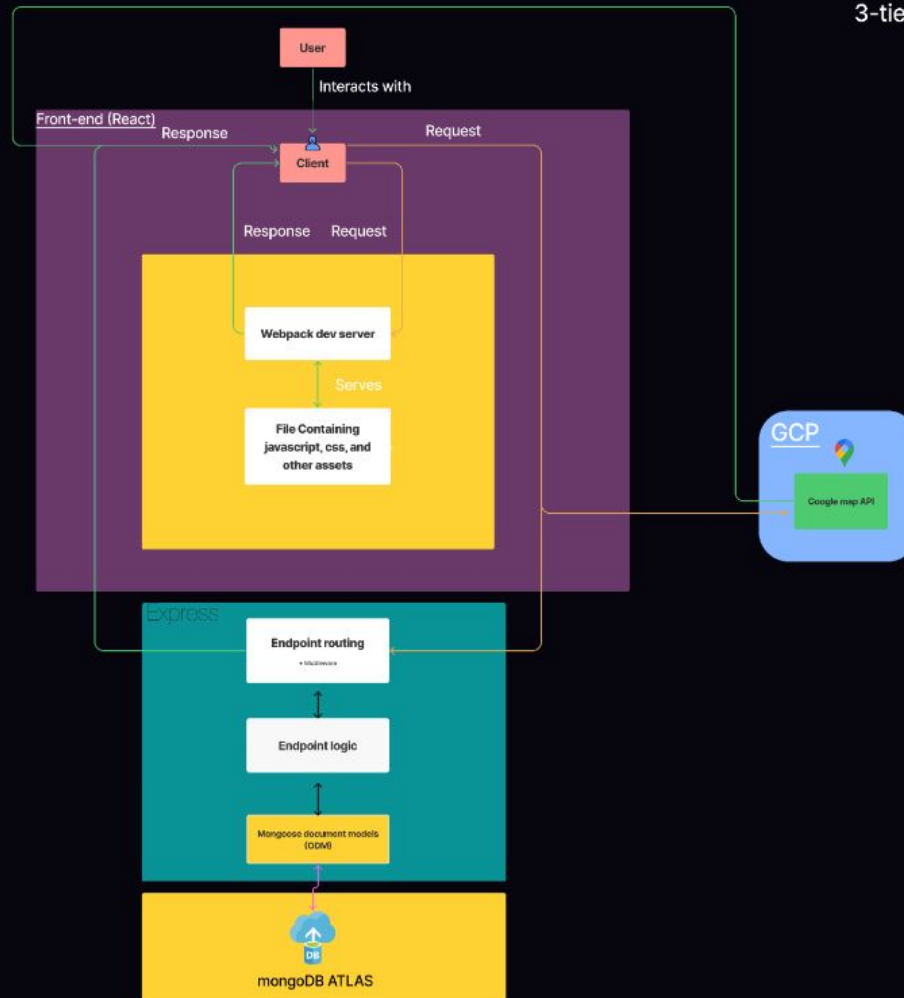
Express

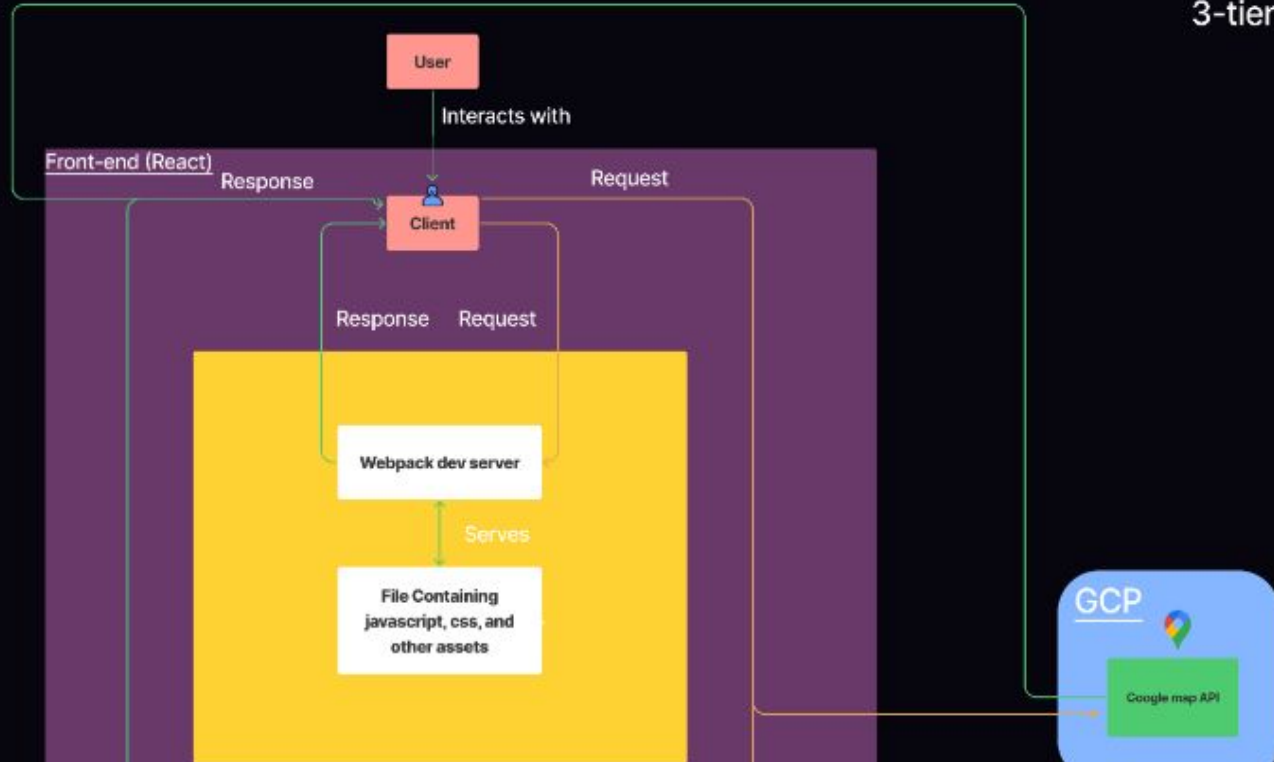


Main Components

- React + Chakra UI
 - Used for our front-end development
- Redux
 - Used for state-management on the front-end
- ExpressJS + NodeJS
 - Used for our back-end
- MongoDB
 - Our database

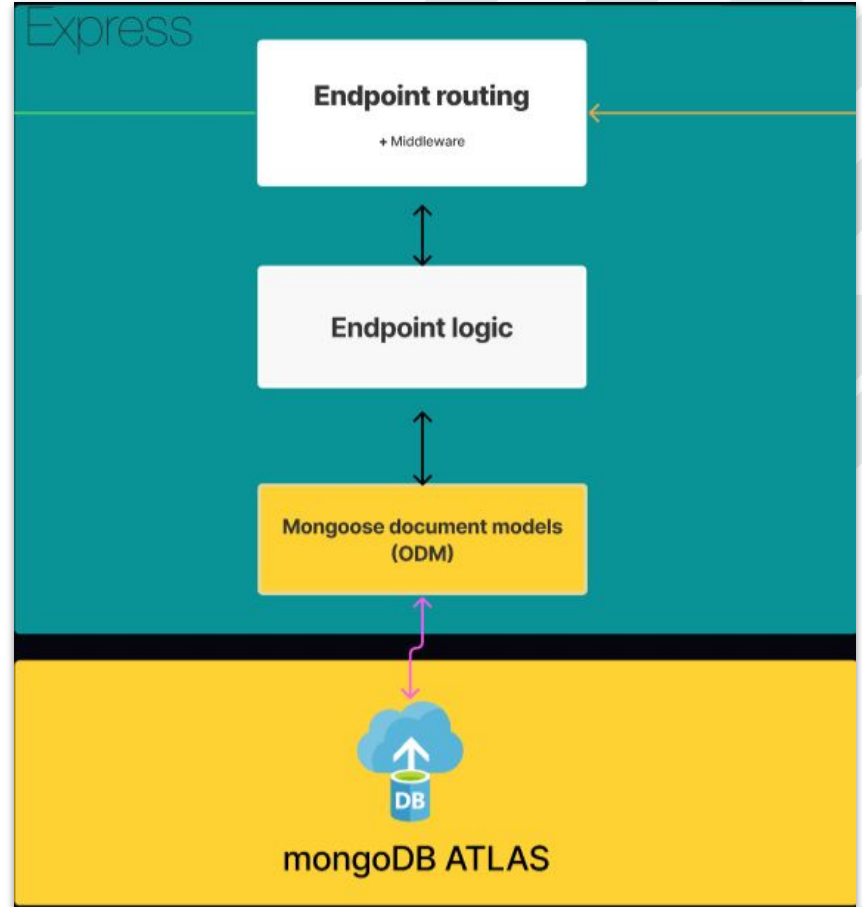






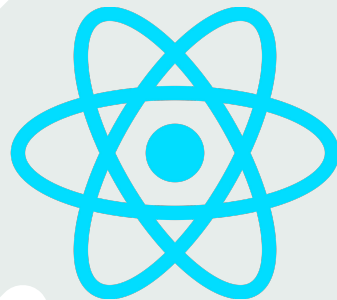
Application Tier

Data Tier



React, Chakra-UI, Redux

- Used React to create all our front-end components
- We used some pre-made Chakra-UI components
 - Ex. Loading spinners
- Redux was used for state management
 - Ex. Authentication was done using redux. (so we could easily pass authentication details to all the components that need it)



chakra



Redux

ExpressJS + NodeJS

- Used for our back-end development and creating our server
 - User requests are processed here
- Receives requests from the frontend, processes them, queries the database if needed and sends back a response.



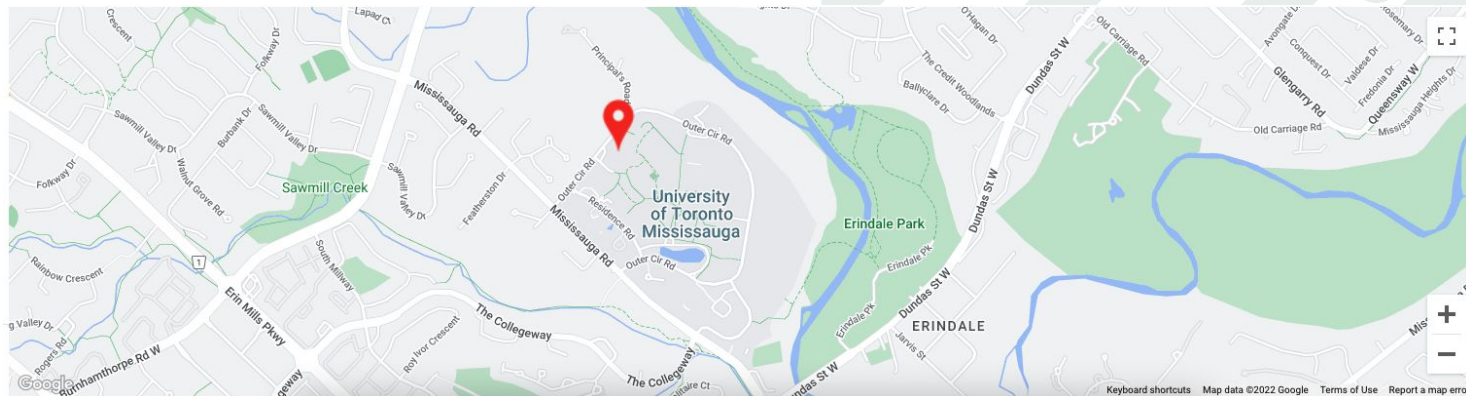
MongoDB

- Directly communicates with our back-end and ensures data becomes persistent
 - When a user creates a study group or makes changes to their profile, those changes will be saved
- Connected to the front-end
 - Upon a request to the server, the server serves this request accordingly and asks the database to store the given data.

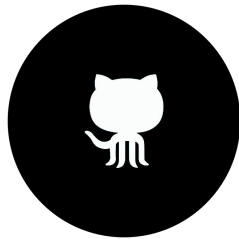
Software challenges

1. Google-maps-react

- Integrating Google Maps into our app was a challenge.
- Documentation wasn't great and ran into a lot of issues



Process



Jira Software

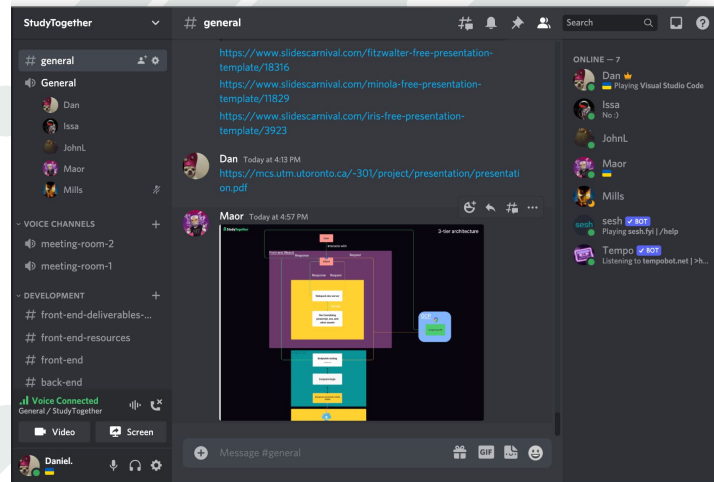


Discord

Main method of communication

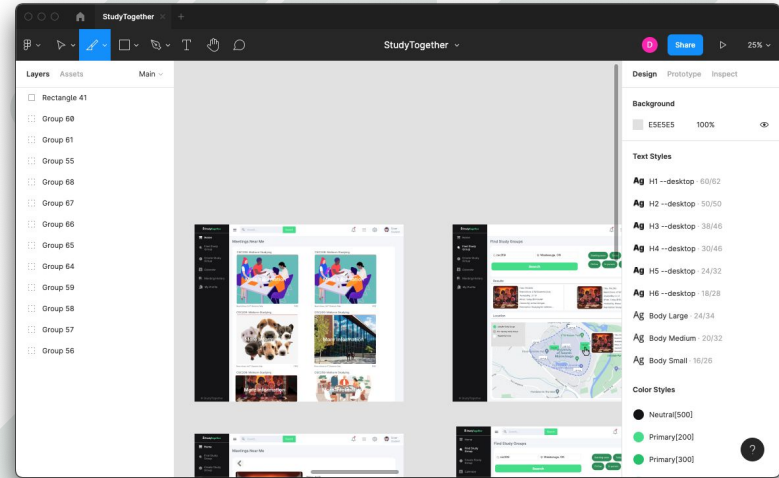
- Updating other members on progress and deadlines
- Reaching out to other members for help
- Resolving conflicts in case there are any
- Requesting opinions on design choices
- Dedicated channels

○ Wiki, Frontend, Backend, reminders...



Figma

- Creating UI/UX design concepts.
- Help model components before creation.



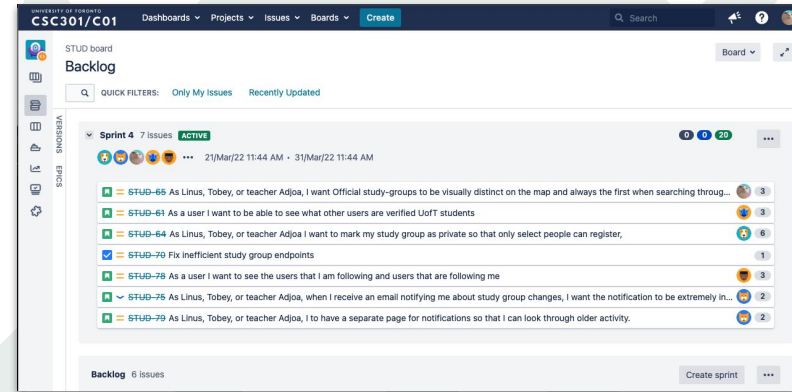
Github

- Our choice of version control
- Followed Git flow standard
- Requesting other member to review PR requests
- Provide technical and detailed comments on what can be improved



Jira

- Create and track tickets for each user story.
- Separated user stories into subtasks to help manage the workload.
- Add comments on tickets to clarify details for other members.
- Analytics: Burndown chart



 Jira Software

Google Docs

Documentation and deliverables

- All derivables were collaboratively worked on through shared docs
- Keeping records of Bugs to fix.





Practices

Bad practices as a team

- Resolving merging conflicts
 - Ex. Overwriting someone's work, introducing bugs, etc.
- Slow to review PRs
- Not updating Jira as soon as the PR is merged



Good practices as a team

- Active communication and fast replies on Discord
- Discussing issues as they arise
- Creating and editing documentation as project progresses



Documentation

We divided the documentation into two sections:

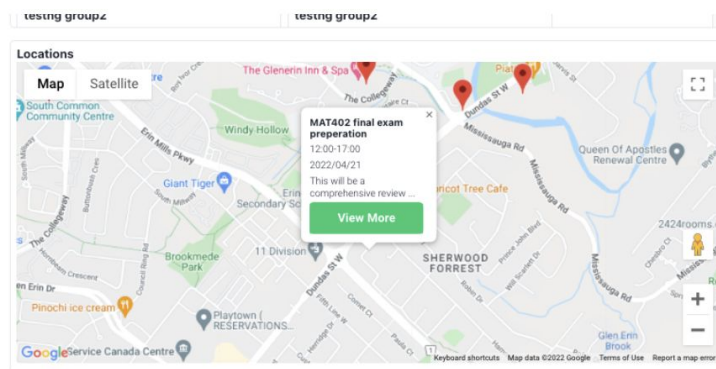
- Frontend: Created documentation on google docs
- Backend: Utilized SwaggerUI and google docs



Documentation Standards - Frontend

- Mention the type of each props
- Attached screenshots for each component/page
- Created CRC cards for each component/page.

MarkerInfoWindow

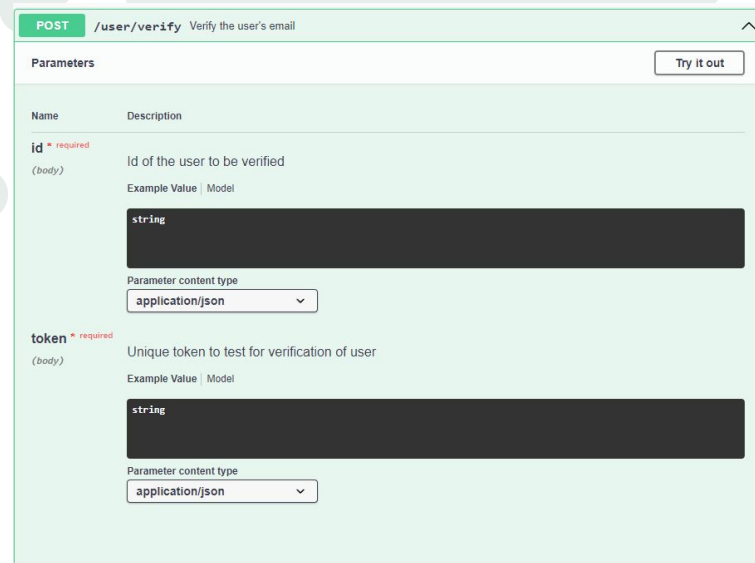


```
MarkerInfoWindow.propTypes = {  
  group: PropTypes.PropTypes.shape({  
    lat: PropTypes.number,  
    lng: PropTypes.number,  
    id: PropTypes.string,  
    metaData: PropTypes.shape(),  
  })  
}.isRequired,  
};  
MarkerInfoWindow.defaultProps = {};
```


Documentation Standards - Backend

- Created CRC cards for each file
- Swagger entry for each endpoint

Class Name: routes/forgot.js	
Parent Class: None	
Subclasses: None	
Responsibilities: <ul style="list-style-type: none">● Recover password in case user forgot it (i.e update old password to a new one)<ul style="list-style-type: none">○ Recover process involves tokenization to add a layer of security○ Sends reset link to the user's email	Collaborators: <ul style="list-style-type: none">● models/user.model.js● models/token.model.js● app.js



The image shows a snippet of a Swagger UI interface for a REST API endpoint. The endpoint is a POST request to `/user/verify` with the description "Verify the user's email". There is a "Try it out" button in the top right corner. The "Parameters" section lists two required body parameters:

- id** (required): "Id of the user to be verified". It is a string parameter with an example value of "string". The parameter content type is set to "application/json".
- token** (required): "Unique token to test for verification of user". It is a string parameter with an example value of "string". The parameter content type is set to "application/json".

Thanks!

- Hope to see you on StudyTogether!

