# Form Buster

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## Goals and Motivation

- Everybody hates the current PDF system used at FIT
- Expecting an echo in outer space is more reasonable than expecting to hear back from an advisor quickly
- Docusign is an incarnation of the devil

- We want to design a web application that makes filling out and signing off forms easy and efficient
- No need for sending emails/filling out PDFs
- Get instant feedback on current state of your forms



# Approach |

#### Web-based Form Tracking for Students

- Sign in, choose a form, and your profile information will be autofilled.
- Fill it in, and send it off
- Automatically sent to appropriate recipients
- Track form progress

#### Creation and Management of Registrar Forms

- Administrators can create and manage custom forms
- Make them available to students immediately
- Configure who is able to start a form

#### • Form Notifications

- Get notified when your form has been processed
- Simple email notifications
- o Faculty will never miss your emails again

### **Novel Features**

- Students can fill out and submit a course registration form online
  - Normally, Students have to email PDF files to advisors
- Students can track the progress of completed forms
  - Currently, there is no way for students to track the progress of their PDF's.
- Administrators can update and modify forms online
  - Currently have to modify PDFs and manually publish/email the changes to other administrators

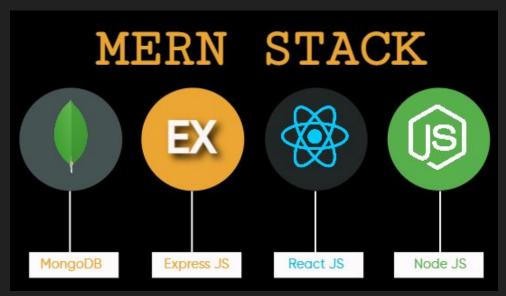
# Technical Challenges

- Most of the team is unfamiliar with some aspects of the MERN stack, primarily MongoDB, Express, and React/Node
- We will need to acquire a server to store information in our database
- Finding another server to host the web application to be viewed on the internet

# **Necessary Tools**

#### Languages (MERN Stack):

- HTML
  - React
- CSS
- Javascript
  - NodeJS
  - Express
- NoSQL
  - MongoDB



https://medium.com/@amirakhaled2027/the-mern-stack-developer-road map-from-beginner-to-expert-bf991a9bcc1c

### Milestone 1

- Design website frontend skeleton UI
- Acquire database, find a server to host the web application with backend support
- Develop data structure base for forms
- Create Requirement Document
- Create Design Document
- Create Test Plan

## Milestone 2

- Implement routing between pages on the web app
- Design/Implement basic form editor
- Implement different User views for Students, Advisors, Staff
- Add profiles and store user profile data
- Add a simple form for class registration

## Milestone 3

- Improve design/implementation of form editor
- Continue addition of sample forms
- Implement form tracking logic/UI
- Implement site mailbox/notification system
- Implement email notifications

# Task Matrix

| Task                        | Daniel    | Chris              | Alex      | Luka        |
|-----------------------------|-----------|--------------------|-----------|-------------|
| Website frontend            | mobile    | N/A                | web       | N/A         |
| Database/<br>hosting server | N/A       | search/acquisition | N/A       | N/A         |
| Develop Data<br>Structures  | design    | design             | design    | design/code |
| Requirement Document        | Write 25% | Write 25%          | Write 25% | Write 25%   |
| Design<br>Document          | Write 25% | Write 25%          | Write 25% | Write 25%   |

# Questions?