

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
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- 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
 - 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

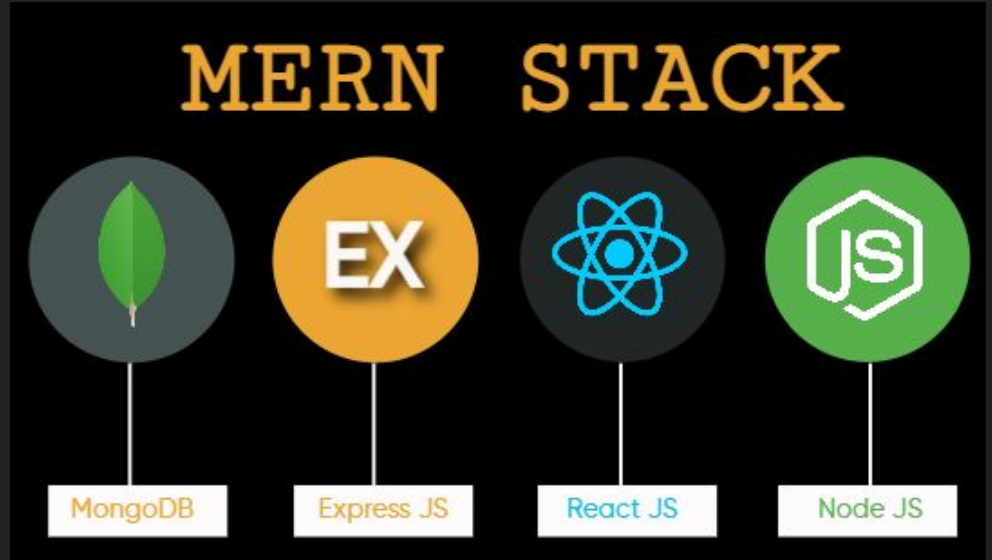
Technical Challenges

- 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/ hosting server	N/A	search/acquisition	N/A	N/A
Develop Data Structures	design	design	design	design/code
Requirement Document	Write 25%	Write 25%	Write 25%	Write 25%
Design Document	Write 25%	Write 25%	Write 25%	Write 25%
Test Plan	Write 25%	Write 25%	Write 25%	Write 25%

Questions?