

Capstone Project: OnTheBlock

Megaminds.

CS 5934

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A brief description of your project :

A secure Marketplace to buy and sell stuff within the college community.



Context and background of the problem:

- College students nationwide are constantly moving and require mediums to sell and buy goods.
- Current online and offline modes of buying and selling goods may not be reliable and safe.
- We plan to provide a safe and reliable marketplace experience with advanced security features like OTP Validation and email domain checks.



Project goals, target users, main functions and unique features

Goals: We provided a safe and reliable application to assist college students in buying and selling goods.

Target Users: College students exclusive to Virginia Tech

Main Functions and Unique Features:

Email functionality	Future market available date for products
Ability to contact sellers	Ability to report users
Ability to rate users	Social Media sharing options
Deployment using Kubernetes	Filtering/Searching of products
Session management using JWT	2FA authentication

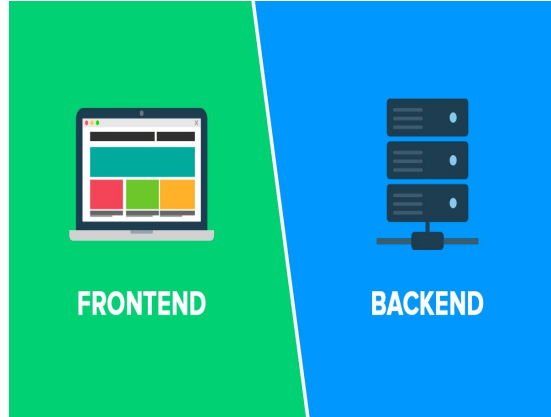
How did you build the system? (Technical details/Design Choices)

- How did you build the system :
 - Approach for decoupling services
 - Frontend & Backend
 - Choosing the features
 - Code development
 - VS Code
 - Tools :
 - Gitlab
 - SQLAlchemy - ORM
 - Docker
 - Kubernetes
 - Gitlab board

Difficulties you encountered during the project and how you overcame them

Problems

Frontend/Backend Integration



Database Migration/Updates



Communication



Thank You!

Questions or Comments?

