



**University of Arkansas – CSCE Department
Capstone II – Preliminary Proposal – Fall 2021**

Programming Challenges

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Abstract

This project provides a solution for the programming student to access programming challenges of different levels.

1.0 Problem

Nowadays there is not really a place on the internet that would really prepare a programming student for life after graduation. Most students do find a job in the programming field, but there is still a minority that are in search of a job to put their programming skills to use.

2.0 Objective

We want to create a website that contains programming challenges of different levels that help students polish their skills in specific areas of programming that they would want to pursue further.

3.0 Background

3.1 Key Concepts

We are not using any kind of physical technology. Our project is only software based. We are planning on using the UARK turing system to upload our website.

3.2 Related Work

There are websites that have programming challenges, but most of those websites were created for basic education about programming. We want a website that also creates challenges that deal with real world problems.

4.0 Design

4.1 Requirements and/or Use Cases and/or Design Goals

User being able to create an account on the website

User being able to view the challenges they want.

Additional tools for users to use as the website grows.

4.2 Architecture

Not available at this time.

4.3 Risks

Risk	Risk Reduction
Uploading a website	Using a known server like uark turing

4.4 Tasks

1. All members understating the project
2. Breaking down the project into smaller pieces
3. Creating a basic website UI
4. Adding each feature to the website
5. Testing each added feature
6. Documenting the changes
7. Uploading the website
8. Discussing the future possibilities for the website

4.5 Schedule

Not available at this time.

4.6 Deliverables

- Website code
- Final Report
- The list might grow

5.0 Key Personnel

Student name – Jozef Dusenka, Mark Alexraj, Rafael Valadez Alvarado. All majoring in Computer Science at the University of Arkansas.

6.0 Facilities and Equipment

Uark turing

7.0 References

None at the moment