

# Software Development Capstone Topic Approval Form

The purpose of this document is to help you clearly explain your capstone topic, project scope, and timeline. Identify each of these areas so that you will have a complete and realistic overview of your project. Your course instructor cannot sign off on your project topic without this information.

*Note: You must fill out and submit this form. Space beneath each number will expand as needed.*

*Any cost associated with developing the application will be the responsibility of the student.*

## INFORM MENTOR:

Potential use of proprietary company information: (Y/N)

## ANALYSIS:

### 1. Project topic AND description:

A mobile Application for a fishing shop that includes the different things that the customer can buy. It will include different types of rods, baits, and gear. It will also have the ability to sign up for lessons and notify the customer when their lessons are happening. It will allow people to add notes to share with their fellow fishermen.

### 2. Project purpose/goals:

Wallys Walleyes Fishing Shop is trying to get with the times and be competitive in the market place. Their sales are down because they still use a book and binder approach to place orders and collect money. They have hired me the lead Software Developer to create an application on a phone that will show the current things they sell. Their rival Sammy Suckers Fly and Tackle shop are their rivals and right now they are really behind in sales to their rival. This application will showcase their newest feature which is fly fishing lessons. They know that this will give them the edge to be at Sammy Suckers. This approach will increase sales. It will also increase sales by advertising to more than just the old timers who are fishing. This will make the population of customers dramatically increase.

## DESIGN and DEVELOPMENT:

### 1. Application Type (select one):

- Mobile (indicate Apple or Android)
- Web
- Stand-Alone

### 2. Programming/development language(s) that you will use:

I will use Java, Android Studio, XML.

### 3. Operating System(s)/Platform(s) that you will use:

Android Studio Flamingo | 2022.2.1 Patch 2  
Build #AI-222.4459.24.2221.10121639, built on May 12, 2023  
Runtime version: 17.0.6+0-b2043.56-9586694 amd64  
VM: OpenJDK 64-Bit Server VM by JetBrains s.r.o.  
Windows 11 10.0  
GC: G1 Young Generation, G1 Old Generation

Memory: 1280M

Cores: 8

Registry:

external.system.auto.import.disabled=true

ide.text.editor.with.preview.show.floating.toolbar=false

gradle.version.catalogs.dynamic.support=true

4. Database Management System you will use:

Room/SQLite

5. Estimated number of hours for:

- i. Planning and Design: 30 hours
- ii. Development: 60 hours
- iii. Documentation: 45 hours
- iv. Total: 135 hours

6. Projected completion date: 11/24/2023

#### **IMPLEMENTATION and EVALUATION:**

1. Describe how you will approach the execution of your project:

- a. The first step will be to create a wireframe so we can get a clear understanding of how the layout will be. This will help us see how the project will work and where we can improve.
- b. The next step we will do is create the code and test it to see if it is working in a testing environment
  - i. We want to check if the layout is working and if it is then we will keep this format
  - ii. If not then we will change and adjust to make sure we can produce the a good app
- c. The next step we will implement is to use the feedback we received from the previous prototype and start making the code to make sure it will be continuing to improve
- d. During this process we will continue to analyze and test our code
- e. The next step we will is that we will report any bugs we run into and then repeat until there aren't any bugs left to report
- f. After the code is flawless and function we will deploy our finished application

**X This project does not involve human subjects research and is exempt from WGU IRB review .**

#### **STUDENT SIGNATURE**

**Nicholas Walters**

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**By signing and submitting this form, you acknowledge** any cost associated with development and execution of the application will be the responsibility of the student.

**COURSE INSTRUCTOR'S NAME:**

Carla M.

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**COURSE INSTRUCTOR APPROVAL DATE: 11/22/2023**

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