**Computer Science 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 INSTRUCTOR:**

Potential use of proprietary company information: (Y/N) No

**ANALYSIS:**

1. Project topic AND description:

Housing price predictor. My proposed project will use a data set of recently sold houses and the houses primary attributes to predict what a new listing should be listed at based on the size and number of rooms for the the new property.

1. Project purpose/goals:

To accurately assess a new potential listing and determine the sale price the property should be listed for sale as.

1. Descriptive method:

Multiple linear regression will be utilized as the predicting model for this project. The model will use critical information about a property like size and number of rooms.

1. Predictive/Prescriptive method:

The project will predict the price of a house.

**DESIGN and DEVELOPMENT:**

1. Computer science application type (select one):

Stand-Alone

1. Programming/development language(s) you will use:  
   Python
2. Operating System(s)/Platform(s) you will use:  
   Windows 11 Home
3. Database Management System you will use:  
   None, data will be provided with a csv file
4. Estimated number of hours for the following:
   * 1. Planning and Design:2
     2. Development:4
     3. Documentation:7
     4. Total:13
5. Projected completion date:  
   9/30/2023

**IMPLEMENTATION and EVALUATION:**

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

I will first work on part C of the project to ensure that the project functions properly. Then I will focus on the documentation required for the project.

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

**STUDENT SIGNATURE**

**­­­­­­­­­­­­­­­­­­­­­­­­­­­­­\_\_\_\_Joshua Gibson\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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

**COURSE INSTRUCTOR’S NAME:**

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**COURSE INSTRUCTOR APPROVAL DATE:**