**Software Engineering**

**Capstone Topic Approval Form**

*The guidelines for the Software Engineering Capstone course require a student to demonstrate the application of academic and professional abilities developed as an undergraduate student. The software engineering capstone challenges students to integrate skills and knowledge from several program domains into one project. As a result, it is highly recommended that your topic should resolve a current or perceived business problem. As stated, you want to exemplify what you have learned in your Software Engineering program to showcase your skills. Remember, your research topic exemplifies scholarship and research at the highest level and is significant and helpful to potential employers in identifying your abilities. Your research will always be something you can look back on with pride. Finally, it is recommended for students to use publicly available datasets for transparency and external validity.*

*The purpose of this document is to help you clearly state the research question you will be exploring in your Software Engineering capstone project, your project’s scope, your project’s tools, and your timeline in order to assure that these align with your degree emphasis. Without clearly defining each of these areas, you will not have a complete and realistic overview of your project, and it cannot be accurately assessed whether your project will be acceptable for the purposes of these courses. Of course, if this is a project you have already completed at work or elsewhere, this should be easy to complete! Many students do use a project they have already completed in the past several years. In that case, you will write the proposal as if the project has not been done yet. If you have not yet done your project, this document can help make sure the scope is within the acceptable range for this capstone. Whether you completed a project or not, you will develop your capstone software application using the tools provided throughout your program. An instructor will approve this form before submitting this task for evaluation. The task will not be evaluated without an instructor’s signature. The instructor may ask for additional information before approving the form.*

*Before submitting this form for approval, please remove all italicized directions in the form.*

***Please only submit a Topic Approval Form that has been signed by an instructor for evaluation.***

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

*Note: you must fill out and submit this form. The space beneath each area requiring your response will expand as needed. Any cost associated with development of the capstone will be the responsibility of the student.*

***Keep in mind that projects built with procedural lanaguages (not object-oriented) will require additional work to emulate classes and subclasses. Also, it’s possible there will not be available support for troubleshooting.***

**STUDENT NAME and ID:**

Student name:

Student ID:

**INFORM INSTRUCTOR:**

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

**LANGUAGE(S):**

**Application Type (select one):**

* Mobile (indicate Apple or Android)
* Web

**ANALYSIS:**

1. Project topic AND description:
2. Project purpose AND goals:

**DESIGN and DEVELOPMENT:**

1. Explain why the problem and software product you have proposed are worthy of study:
2. Projected outcomes and deliverables:
3. Estimated number of hours for the following:
   * 1. Planning and design:
     2. Development:
     3. Documentation:
     4. Total:
4. Projected completion date:

**IMPLEMENTATION and EVALUATION:**

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

**INFORM INSTRUCTOR OF:**

Potential use of human subjects (Y/N): Click here to enter text.

Potential use of proprietary company information (Y/N): Click here to enter text.

**STUDENT NAME:**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**By submitting this form, you acknowledge** **all information provided is accurate and that any changes to the topic, proposal, or goals must be discussed with your assigned instructor prior to continuing.**

**INSTRUCTOR SIGNATURE:**

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**INSTRUCTOR APPROVAL DATE:**

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