## CSC 493 Senior Projects
## R1: Weekly Report 1: The First Weekly Report and Project Concept Proposal

### *On the structure, format, and purpose of the weekly reports*

Be sure you have read http://faculty.berea.edu/pearcej/csc493/R_OnReports.pdf because you will be expected to follow the guidelines stated there for each weekly report. In particular, each weekly report must be formatted as described there and must include the cover page, the Application Development section, and the Executive section as described there.

### *Summary of the new task*

The Project Concept Proposal is used to make a case for a project and it is frequently the first document to be created in the software development life cycle. In industry, it concretely identifies a need or opportunity and demonstrates that the idea is likely to be a worthwhile investment by identifying potential impacts on company systems, staff, and operations. In short it is used to:

- Explain the rationale behind the proposed software product/service
- Persuade stakeholders to invest resources in the proposal
- Highlight where strategic goals can be realized and justify why this proposal should be endorsed

Your task is to decide on a programming project and write a project concept proposal.

### *Application Development Section*

Using a formal style, writing, add the following two subsections to the Application Development Section of your report:

**Project Concept Proposal**

- **Purpose**: Provide a short, but formally written, description of the software being proposed and its purpose, including the following:
    - **Context**: A statement context for the proposed project including a statement of the need or opportunity which your project is intended to address.
    - **Goals**: The primary benefits and goals of the proposed project and how this project is intended to address the need/opportunity just described.
    - **Audience**: Describe the intended audience of users and the main usability goals (i.e. how the expected users will benefit from your proposed project)
    - **Functionality**: The expected project functionality and characteristics
    - **Milieu**: Very brief descriptions of existing similar products: their utility and limitations and/or advantages and disadvantages
    - **Novelty**: The novelty of your solution and/or the enhancements you propose
- **Resources:** Using a formal standard for documentation, list all software resources you plan to use including the intended technologies (platform, language, libraries, tools, etc.)
- **Optional in this report**: Problem-domain reference articles (journal papers, conference papers, or web publications), and/or pointers to related and potentially useful websites.
- **Challenges**: The challenges that you anticipate encountering during this project's development
- **Measures**: An outline of project measures of success (how you will know when you have met the requirements.)
- **Future Extensions**: Possible extensions to the proposed project to be completed only if time permits

**Inspiration**

Because this section is more personal, it may be written using a more person tone and may use the first person.

- **Motivation**: Briefly describe your primary personal motivation for this choice of project.  i.e. why is this important to you and why you have selected it.
- **Profession**: Describe how this project is expected to help your own professional growth and desired career path
- **Other (Optional):** To the above, you may add any additional items that you think will strengthen your proposal.

## *Report Submission*

Convert the file to a pdf, name the file *yourusername*-R1.pdf, and submit into our course management system in time to meet the stated deadline.

Note that the pdf file does not need to be printed, but you will need to retain the electronic copy of the original editable file because you will use it to build your next weekly report.