CS 425: Software Engineering

Project Part 4: Project Prototype

Due: Demos to instructors on December 2, 3, 6 or 7, 2021; Also, Project P4 document (a PDF file named P4_Txx.pdf, where Txx is your team number) and your implemented code (a zip file called P4_Txx.zip) due by Thursday, December 9th, 2021, 11:59pm.

Weight: 18% of course grade

Note: In the following **<T4>** denotes a team of four students and **<T5>** a team of five. The notation **<X/Y>** means **X** applies to a **<T4>** and **Y** to a **<T5>**.

Deliverables for Part 4 of the Project

For this final part of the project in CS 425 you should provide a *Project Prototype* document with the following structure:

Cover page

- Department, university
- Project title
- Team number [optional, team name]
- Team members
- Instructors
- External advisor(s)
- Date

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1. **Abstract** (100 to 150 words). The abstract should indicate the problem/topic you addressed in your project, why it is important, and what are the major things you accomplished so far in solving/addressing it.
2. **Introduction:** a description (between 200 to 500 words) that briefly re-states the goals of your project and gives a concise account of progress made since the previous project report (P#3 Design). Indicate also significant changes/updates made to your project's requirements and/or design, and briefly explain why those changes were needed.
3. **Prototype Objectives & Functionality:** Outline the main objectives of your prototype development. Describe at least 4 **<T4>** or 5 **<T5>** items you decided to implement for the prototype. Indicate why you decided to prototype these specific functions of your project. For *teams with hardware components*, briefly outline what specific prototyping has been done in terms of hardware development, if any.
4. **Develop Prototype:** Create the prototype functionality as outlined in Section #4. The prototype created should display sufficient functionality so it can be evaluated by the instructors (and potentially other stakeholders). For this part

of the written P4 document include several UI snapshots, with brief descriptions. *For teams with hardware components*, please include details of the hardware prototype (diagrams or snapshots/pictures), with brief descriptions.

5. **Demo Prototype**: Demonstrate your prototype to the instructors in the CS 425 demo project team meetings with the instructors scheduled between December 2 and 7, 2021. For this part of the written P4 document, include in this section the date and time of your demo. Optionally, you can add a summary of comments and recommendations that emerged during your demo.

6. **Team Contributions:** Provide an estimate on how much time each team member worked on <u>this </u>project part (P4), and on what specific activities.

7. **Implemented Code**: Include in your P4 submission via Canvas a zip file with your developed code. In its comments clearly indicate what code you developed and what code you integrated from other sources.