Milestone 1

CPTS 422 SOFTWARE ENGINEERING PRINCIPLES II

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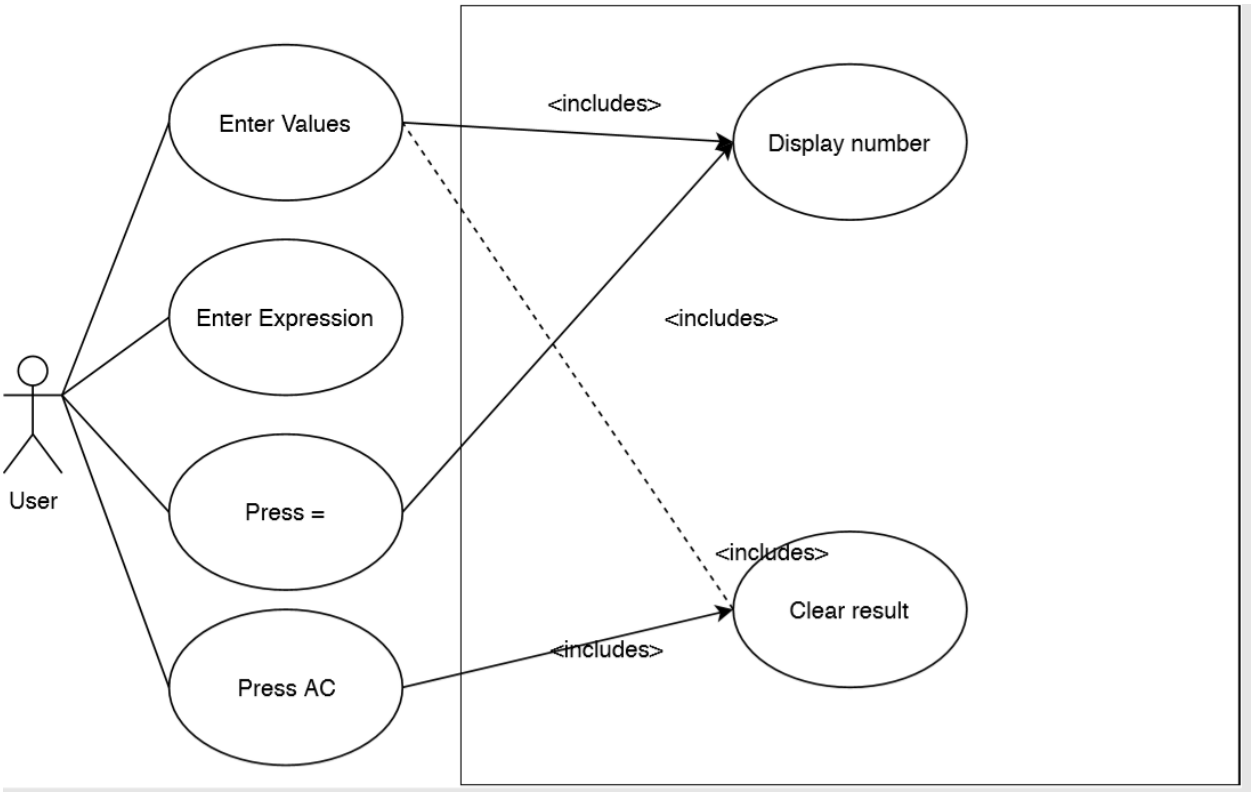
MILESTONE REPORT

1. Requirements Specification

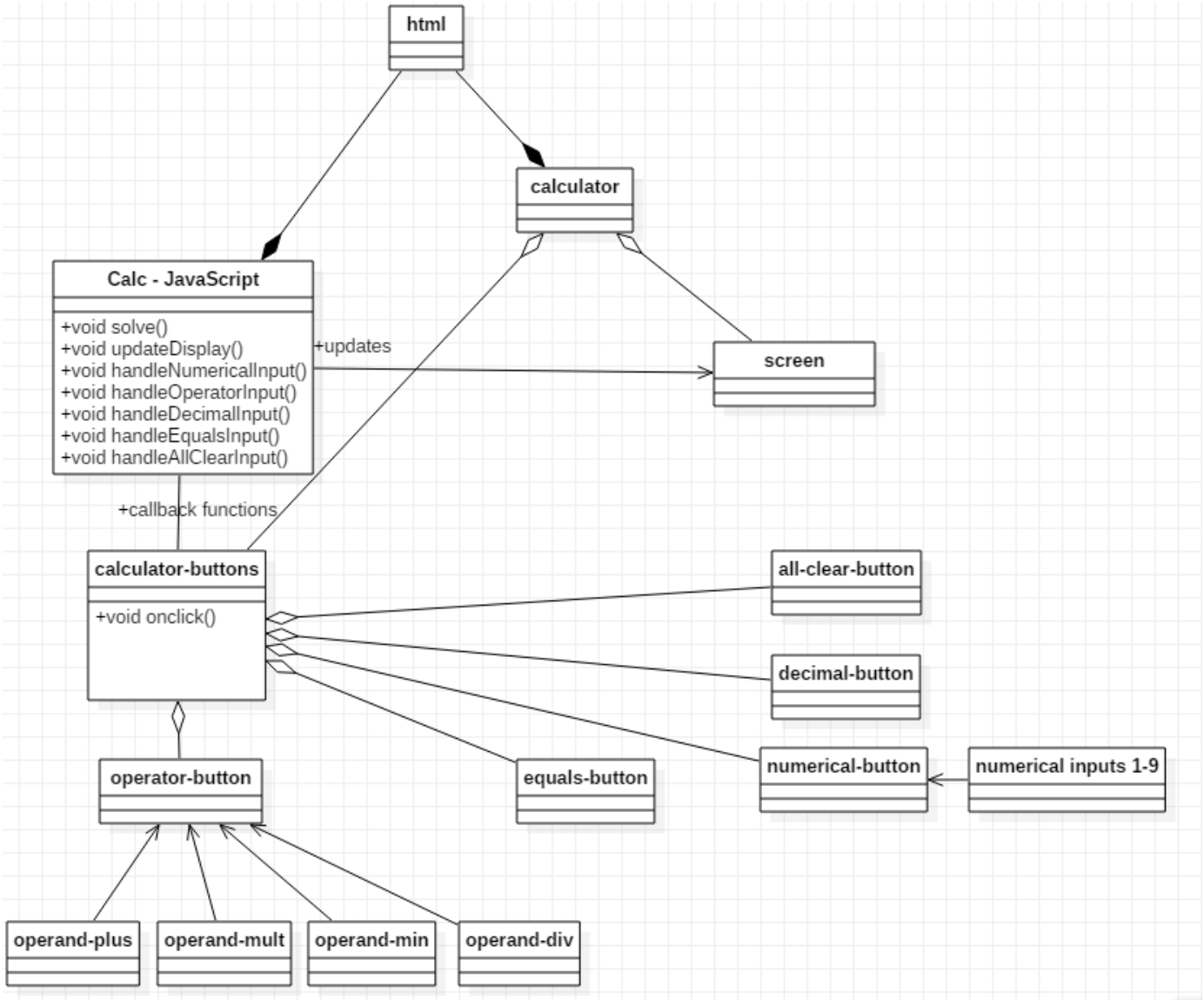
Use Case Diagram

This diagram demonstrates basic options a user has when interacting with the software. The user may wish to enter values, enter an expression, press the equal sign, or press AC to reset the expression. Depending on which case the user wishes to take, the user will either see the value he enters on the calculator or the result from pressing the equal sign.



Class Diagram

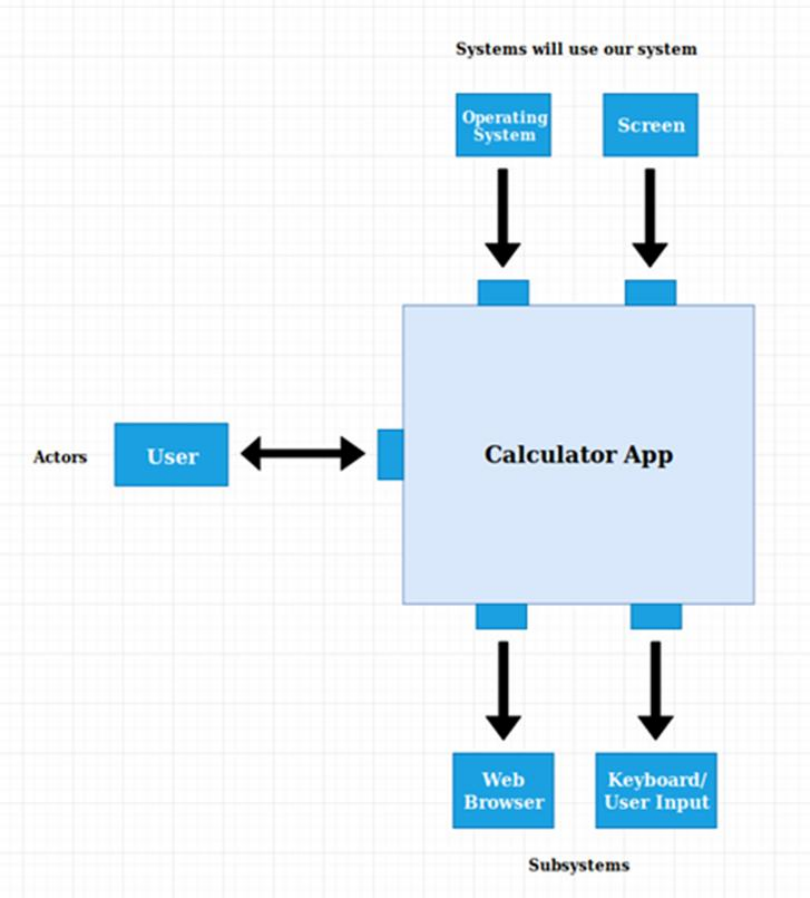
This diagram demonstrates the relationship between classes.



Design Specification

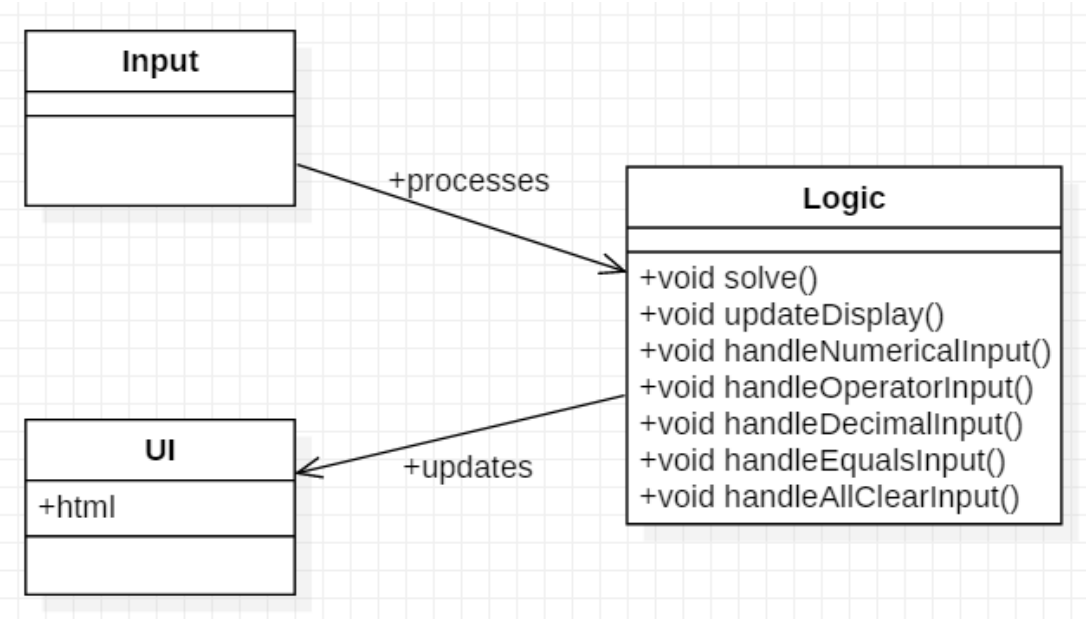
Architectural Context Diagram

This diagram shows part of our architectural design. It displays the high-level relationship between actors, subsystems, and systems that will use ours.



Detailed Component Diagram

This diagram shows how the basic components of the system work together.



Installation

The software is currently very easy to install. The calculator works as any other simple arithmetic calculator.

1. Download the `master` branch of the `cpts-422` repo from the team GitLab website, found here. You can either `clone` the entire repo and `checkout` the `master` branch or download the source code in one of several available formats.
2. Navigate (`cd` into) to the `Calculator` directory.
3. Open the `index.html` file with your web browser. You may have to use `Open With…` and select your browser from the dropdown. Currently, only Firefox and Chrome are known to be supported.
4. Interact with the calculator as you would any other simple electronic calculator.

Milestone Report

All members of the team contributed to all areas of the project. More specifically, Jackson and Austin contributed the majority of the calculator logic and requirements specification, while Sophia and Katherine contributed the majority of design specification, requirements analysis and user interface.

Software Process

We will use the V-Model process for this project, allowing us to update the project plan and other deliverables for missing areas or correctness as we develop the project. Feedback mechanisms between the pre-development and post-development phases of the lifecycle are important.

Project Activities

Our team met on a weekly basis to discuss this project. Typically, this consisted of a few hours every Sunday afternoon. All team members attended every meeting. During the first meeting, we discussed which of the five topic projects we liked the most and decided upon the calculator topic. Gradually, our meetings became more and more specific as we read through content on Blackboard. Requirements became clearer as we wrote code and received access to newly posted notes and samples. As the due date for Milestone 1 approached, we met for two days in a row prior to the due date to finish this written report.

Aug 24th	Discussed our project topic based on the given 5 suggestions. Decided on calculator
Sep 1st	Talked about user interface/styling expectations
Sep 8th	Logic specifications/initial integration
Sep 15th	Diagram outlines for Milestone 1. More logic integration
Sep 21st	Worked on written report
Sep 22nd	Finished up report, finalized last minute git pushes