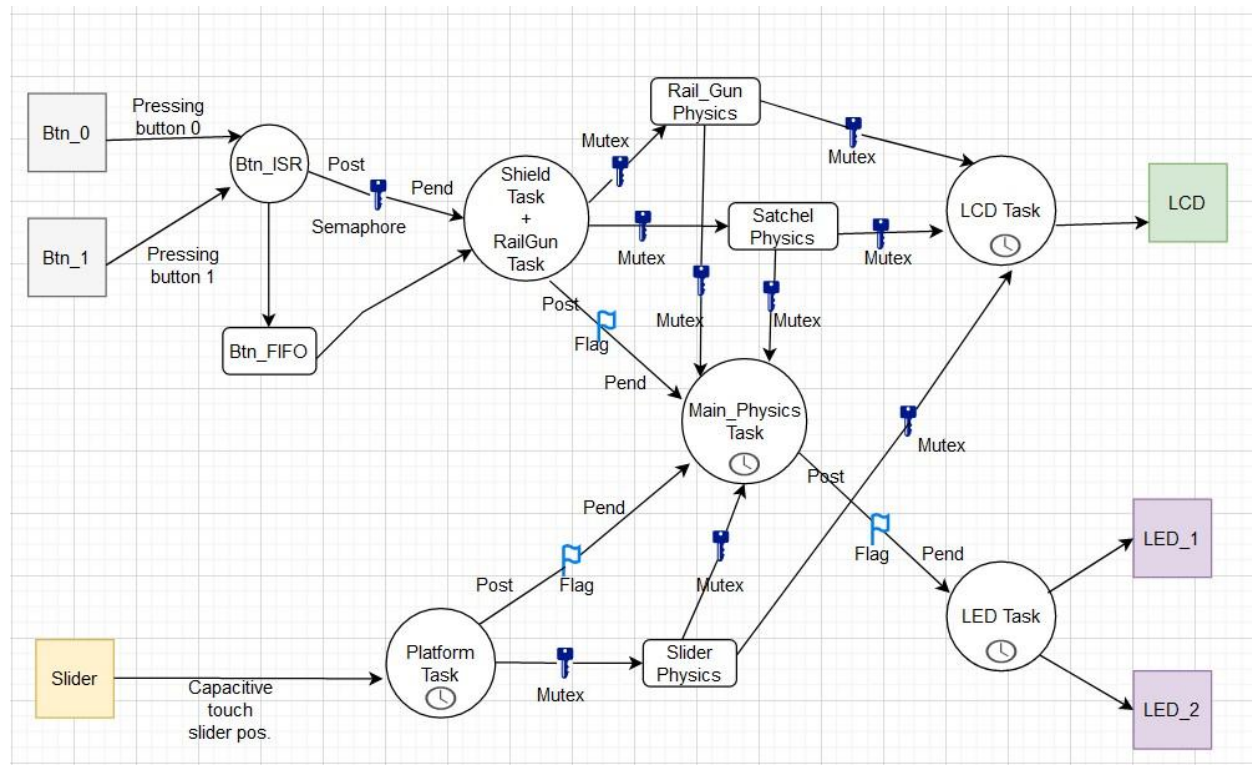


Task diagram :



Task Diagram with appropriate Data Flow and ITC/Mutex

Describe at least 2 desirable "cutting points" for testing (see lecture topic 2.5) covering main paths and/or boundary condition handling :

The two cutting points that I have discovered so far would be :

- 1) Testing the LCD Task to display the initial images consisting of the double lines and singles lines on the right and left side of the display depicting the cliff and the canyon. There should be a platform at the bottom. We can easily test this by implementing and testing on the EFMPG12 and see if the necessary images appear on the screen. Later satchel position and rail gun shots have also to be displayed
- 2) Next we could test the slider to move the platform left or to the right. This is to basically test the Platform Task.

Accurate summary statement of your functionality deliverables and usability so far :

Week 1 : This week I did the project planning, created my task diagram, and identified 2 cutting points and updated the risk registers.

Summary effort & estimate numbers :

This week basically I understood the project and formed a general idea as to how I would tackle the project. I created the task diagram which can be viewed above(It's fairly detailed). *The task diagram is subject to changes as I start the implementation process.* I have identified the two cutting points and updated the risk registers.

I would say that I made about 4%-5% progress in the project. I have worked for about 3 hours. And I estimate that I would need to work for about 74 hrs to implement the total project. I have not been able to make a significant progress in the current in scope items and would like to make some progress on it soon

List of in-scope work items (NOT just _this_ week's), indicating complete or not-yet-complete, along with your estimates of how long you think they will take in total for each :

- 1) Initial Design for the Project + Task Diagram (3 hrs) : **Complete**
- 2) Implement Button ISR (5hrs) : **Not Complete**
- 3) Implement LCD Task (7 hrs) : **Not complete**
- 4) Implement LED Task (5 hrs) : **Not complete**
- 5) Implement Platform Task(6 hrs) : **Not complete**
- 6) Implement Shield Task (8 hrs) : **Not complete**
- 7) Implement RailGun Task (5hrs) : **Not complete**
- 8) Implement Slider Physics (4 hrs) : **Not complete**
- 9) Implement Satchel Physics (5 hrs) : **Not complete**
- 10) Implement Rail_Gun Physics(4 hrs) : **Not complete**
- 11) Implement + Integrate with the main Physics Task (9 hrs) : **Not complete**
- 12) Debugging + Testing (10 hrs) : **Not complete**
- 13) Extra Items (3 hrs) : **Not complete**

Completed Items Summary :

This week I work on the initial design and the task diagram for the project. I feel like I have completed the task in the stipulated time frame. There were some problems I faced in the initial understanding and scope of the item and was able to get the necessary help and mitigate it.

