Team 4

Max Goad

Jace Bayless

Tri Pham

Apurva Rai

Meet Kapadia

Initial Project Description

Project Name

- PC Pal

Project Synopsis

- External touch screen device that controls, adjusts, and manipulates several features within a computer. Features include but are not limited to controlling the sound mixer, Spotify, switching desktops, etc.

Project Description

- While in middle of a game, a full screen, or any other task, accessing features such as the sound mixer or Spotify is painstakingly tedious. The PC Pal makes those aspects easily accessible without stopping or interrupting the current task. In simpler terms, it is almost as if there is a second or third monitor; however, in the end, instead of taking up copious amount of space, it is a handheld, touch screen device. The problem of having to switch over or out of a screen, halting that task, will be solved.

Project Milestones

- For the fall semester, the first milestone we have is to get all our ideas in a bucket and see which a possible. While we are still working on this, we have plenty to choose from. Second milestone is to implement the GUI and different functionality to ensure that specific features we want to implement are possible. Lastly, debug and test this functionality. For all these milestones, we are going to be working together as a group and have weekly meetings to assess and make progress. For the spring semester, the first milestone we want to achieve is get our ideas set in stone and divide up the work. Second milestone we will have is that each person will implement a feature by themselves. Lastly, our last milestone is to get ready to present this project. When it comes to documentation milestones, those are expected to be met when a function is implemented. In the following Gantt Charts, you can see how the milestones are divided up and how long each might take. Some milestones are divided up into several phases, but as you can

see, we plan on working together heavily initially and then going on our own. The Gantt Charts are also divided up into the fall semester and spring semester:

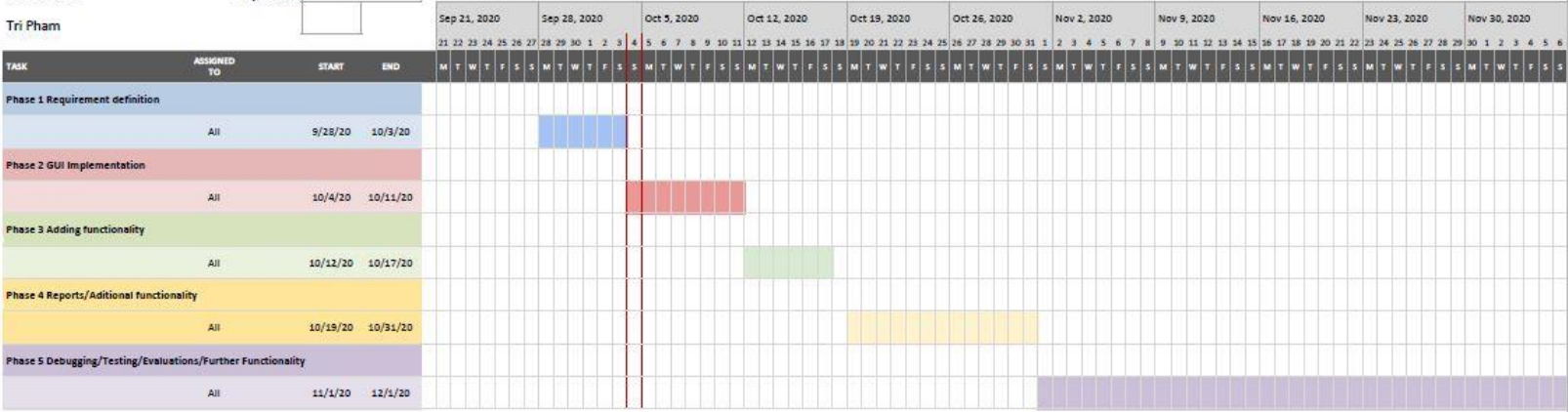### Team 4 Gantt Chart (Fall Semester)

Apurva Rai

Max Goad

Meet Kapadia

Jace Bayless   Project Start: Mon, 9/28/2020

Tri Pham

TASK	ASSIGNED TO	START	END
Phase 1 Requirement definition			
	All	9/28/20	10/3/20
Phase 2 GUI Implementation			
	All	10/4/20	10/11/20
Phase 3 Adding functionality			
	All	10/12/20	10/17/20
Phase 4 Reports/Aditional functionality			
	All	10/19/20	10/31/20
Phase 5 Debugging/Testing/Evaluations/Further Functionality			
	All	11/1/20	12/1/20

Team 4 Gantt Chart (Spring Semester)

Apurva Rai

Max Goad

Meet Kapadia

Jace Bayless   Project Start: Mon, 2/15/2021

Tri Pham

TASK	ASSIGNED TO	START	END
Phase 1 Requirement definition			
	All	2/15/21	2/20/21
Phase 2 Specific funtionality			
Movie mode/Plex	Tri Pham	2/21/21	4/17/21
Switching desktops/windows	Meet Kapadia	2/21/21	4/17/21
Launch Applications	Apurva Rai	2/21/21	4/17/21
Spotify Integration	Max Goad	2/21/21	4/17/21
Sound Mixer	Jace Bayless	2/21/21	4/17/21
Phase 3 Presentation/Video			
	All	4/19/21	4/25/21
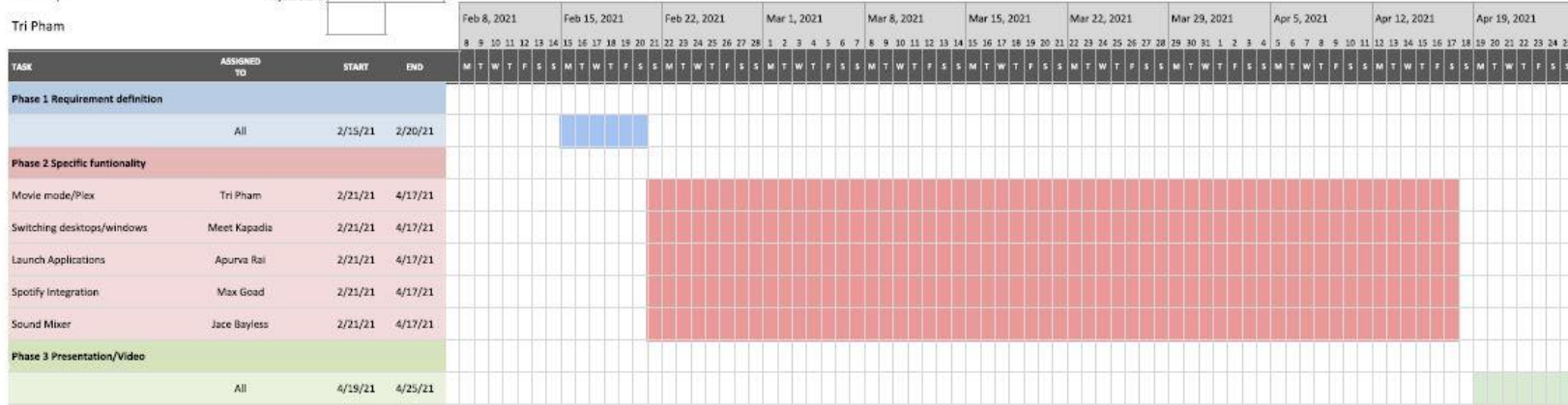
To better see these charts, here are the links for them to view on Google Sheets:

- Graph 1:
  https://docs.google.com/spreadsheets/d/1NgHov51xTCXuhuXHVR5jusR98QkU1-6VKduKo8gKX48/edit?usp=sharing
- Graph 2:
  https://docs.google.com/spreadsheets/d/1BfsWX13zPGnAbXvbbHcXJGWIgyS3ny5tg48U5QEn6EI/edit?usp=sharing

Project budget

- The whole project is dependent on having a Raspberry Pi with a touch screen. The Pi4 costs about $90 on Amazon. I looked into the preferred vendors and could not find the specific Pi we wanted so we are using Amazon. The touch screen for a Pi4 costs about $150, we will use Amazon for this again. We need a power supply to the Pi as well, which will cost about $10, which we will use Amazon again for. Thus, the estimated cost comes out to be $250. We will require these equipments sometime later this month.