Group: 10   Project Title: TrailRider 5.0

Last Week's Goals:

1. To familiarize ourselves with the project documents and create target specifications
2. To begin initial research
3. Set-up online google drive for document storage
4. Create a preliminary Gantt chart to manage upcoming week's timeline

Last Week's Activities:

Name	Activities	Hours Worked	
		Last Week	Total
Andrea	● Found an article related to the project ● Read the project and course guide document	1	1
Carson	● Found an article related to the project ● Read the project and course guide document ● Created weekly report	2	2
Julia	● Found an article related to the project ● Read the project and course guide document ● Created target specifications and preliminary Gantt chart for weekly report	2	2
Lukas	● Found an article related to the project ● Read the project and course guide document	1	1
Ratthamnoon	● Found an article related to the project ● Read the project and course guide document	1	1
Stephen	● Found an article related to the project ● Read the project and course guide document	1	1
Total		8	8

Summary of progress:

● Many resources have been compiled during class and the team is familiar with the project.

● A google drive has been created and organized into appropriate folders.

● A preliminary Gantt Chart and Target Specifications have been created.

Assessment of Overall Progress:

● The team has not yet met outside of class time. Meetings this week will facilitate productivity and allow the design process to begin.

● Modifications to the target specifications and Gantt Chart may occur in the next week.
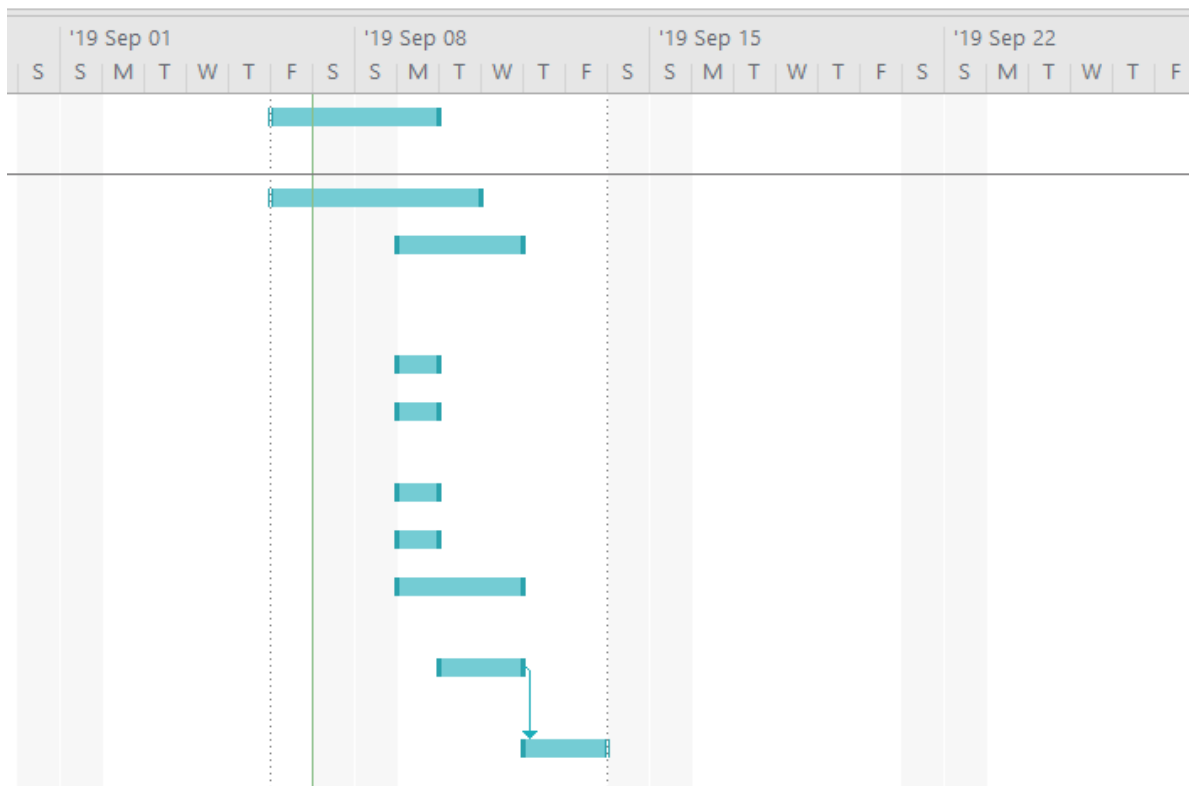
Goals for Next Week:

1. To discuss team goals, expectations, strengths and weaknesses. Also to distribute tasks accordingly.
2. To work through an iteration of the design process from finalizing need statements to function generation.

Action Items for Next Week:

Name	Action(s)	Due Date(s)
Everyone	Buy a logbook	Sept. 9
Everyone	Discuss team expectations, goals and strengths	Sept. 9
Everyone	Determine who will be responsible for each action	Sept. 9
TBD	Brainstorm needs for the rider, the sherpas, BCMOS, the public and search and rescue	Sep. 9
TBD	Determine the current specifications for the Trailrider (cost, weight, length, width etc.)	Sept. 9
TBD	Estimate the worst-case acceptable value for these specifications with justification	Sept. 11
TBD	Create a high-level Gantt chart with important deadlines to work from	Sept. 9
TBD	Compile interesting/useful resources from class list	Sept. 11
TBD	Perform function decomposition on the Railrider based on needs	Sept. 11
TBD	Begin brainstorming solutions to each function	Sept. 11

Preliminary Gantt Chart from Microsoft Project:

Task Mode	Task Name	Duration	Start	Finish	Pred	Resource Names	Add New Column
📌	Determine current specifications for Trailrider and stakeholder needs	2 days	Fri 19-09-06	Mon 19-09-09			
📌	Create target specifications	3 days	Fri 19-09-06	Tue 19-09-10			
📌	Estimate the worst-case acceptable value for these specifications with justification	3 days	Mon 19-09-09	Wed 19-09-11			
📌	Assign tasks for the week	1 day	Mon 19-09-09	Mon 19-09-09			
📌	Discuss team expectations, goals and strengths	1 day	Mon 19-09-09	Mon 19-09-09			
📌	Buy a logbook	1 day	Mon 19-09-09	Mon 19-09-09			
📌	Create a high-level Gantt chart	1 day	Mon 19-09-09	Mon 19-09-09			
📌	Compile interesting/useful resources from class resources list	3 days	Mon 19-09-09	Wed 19-09-11			
📌	Perform function decomposition on the Railrider based on needs	2 days	Tue 19-09-10	Wed 19-09-11			
📌	Begin brainstorming solutions to each function	2 days	Thu 19-09-12	Fri 19-09-13	9		

Target Specifications:

Stakeholder	Notes: e.g. level of influence on project	Needs Category	Need as expressed	Explanatory Notes	Need Statement	Entity to be measured	Units	Minimum	Maximum	Go /no-go	Justification
		Safety	"Make it safer"	Safety is a priority for the person with disabilities, or else they will not use the device.	The device must be safer than the current design.	Does device prevent falling?	Pass/Fail				
		Ergonomics	"Make it smaller"	A more compact device is more likely to be bought and used more frequently.	The device must be smaller than the current design.	Size	Dimensions (cm) or Volume (cm^3)		As big as current design		
		Durability	"Make it stronger"	A device must be able to withstand heavy people and impacts (such as falling)	The device must be stronger than the current design.	Does device withstand impact and high stress?	Pass/Fail				
		Weight	"Make it lighter"	A lightweight device will create less human fatigue for the Sherpas and the rider.	The device must be lighter than the current design.	Mass	kg		As heavy as current design		
		Portability	"Improve the device's portability"	A more portable device will be used more often,	The device must be easy to transport.	Is the device easy to transport?	Pass/Fail				
		Cost	"Reduce production cost"	A cheaper device will be more accessible to people in the market.	The device must have a lower production cost.	Production cost	Dollar		$7,500		Goal is to aim well below $7500
		Interaction	"More rider interaction"	A person with disabilities seeks independence and will be more happy to do most of the work themselves.	The rider must have more independence in using the device.	Time of rider interaction during each trip	Hours	>= half the total trip time	Total trip time		
		Robust	"Improve the device's ability to withstand exposure to water and dirt"	A device that is robust in all weather conditions will be used with more trails and seasons.	The device must remain in quality shape after long exposure to wet and dirty conditions.	Does device maintain quality after severe weather exposure?	Pass/Fail				
		Usage	"Make the device usable by a single "Sherpa" "	The need for only a single Sherpa is desirable because it is easier to schedule hikes with less people.	The device must be able to be used by a single Sherpa.	Can a single Sherpa use it?	Pass/Fail				
		Regulatory	"Make the device Search And Rescue compatible"	Also important to safety, in the case of emergencies the hikers must be found and carried quickly.	The device must be easily accessible by Search and Rescue members.	Is it compatible with search and rescue?	Pass/Fail				