

Group: 10

Project Title: TrailRider 5.0

Last Week's Goals:

1. To complete research on the current Trail Rider for the 'Investigation' appendix.
2. To complete research on other market comparables for the 'Literature Research' appendix.
3. To begin concept generation for the key functions.

Last Week's Activities:

Name	Activities	Hours Worked	
		Last Week	Total
Andrea	<ul style="list-style-type: none">● Generated concept fragments and full concepts● Analyzed the current design hands-on with team● Resumed Investigation Appendix & Final Report format	8	17
Carson	<ul style="list-style-type: none">● Generated concept fragments and full concepts● Analyzed the current design hands-on with team● Organized generated concepts● Worked on the 'Investigation' Appendix	8	18
Julia	<ul style="list-style-type: none">● Generated concept fragments and full concepts● Analyzed the current design hands-on with team● Updated Gantt Chart, created Risk Register, began Failure Appendix.	8	10
Lukas	<ul style="list-style-type: none">● Generated concept fragments and full concepts● Analyzed the current design hands-on with team● Completed the weekly report● Completed the 'Literature Research' appendix	8	17
Ratthamnoon	<ul style="list-style-type: none">● Generated concept fragments and full concepts● Analyzed the current design hands-on with team● Led weekly TA meeting● Updated target specifications for this week● Winnowing	8	17
Stephen	<ul style="list-style-type: none">● Generated concept fragments and full concepts● Analyzed the current design hands-on with team● Worked on the value proposition● Winnowing	8	17

Summary of progress:

- Market comparable research has been completed, and a more in-depth understanding of the current Trail Rider has been developed.
- Target specifications have been updated to more accurately represent the current stage.
- Concept fragments were generated for each of the prime functions, and full concepts were generated based on these fragments.
- Investigation appendix is partially complete.
- The project scope was determined and detailed along with an updated target market.
- Winnowing was completed.

Assessment of Overall Progress:

- Progress is in line with our Gantt chart projection and progress is sufficient to reach upcoming deadlines.

Goals for Next Week:

1. Score full concepts and complete DFMEA
2. Complete the 'Investigation' appendix

Action Items for Next Week:

Name	Action(s)	Due Date(s)
All	Score concepts that passed winnowing	9/22
All	Complete DFMEA 1	9/22

1		Needs Assessment				
2	✓	Research BCMOS background and their need statements. Clarify in Q&A section.	5 days	Mon 19-09-09	Fri 19-09-13	
3	✓	Research current wheelchair specifications	5 days	Mon 19-09-09	Fri 19-09-13	
4	✓	Research available markets	5 days	Mon 19-09-09	Fri 19-09-13	
5	✓	Research other products	5 days	Mon 19-09-09	Fri 19-09-13	
6	✓	Choose our market stakeholders and determine needs	5 days	Mon 19-09-09	Fri 19-09-13	
7	✓	Create preliminary target specifications	5 days	Mon 19-09-09	Fri 19-09-13	
8	✓	Determine project constraints	5 days	Mon 19-09-09	Fri 19-09-13	
9	✓	Determine overall project scope	5 days	Mon 19-09-09	Fri 19-09-13	
10	✓	Create a Risk Register	1 day	Mon 19-09-16	Mon 19-09-16	
11	✗?	Concept Generation				
12	✓	Function decomposition	2 days	Fri 19-09-13	Mon 19-09-16	
13	✓	C-sketch round 1	1 day	Mon 19-09-16	Mon 19-09-16	2,3,4,7,8,9
14	✓	First set of concept combination	1 day	Wed 19-09-18	Wed 19-09-18	13
15	✓	C-sketch round 2	1 day	Wed 19-09-18	Wed 19-09-18	13
16	✓	Concept combination (complete concepts)	1 day	Fri 19-09-20	Fri 19-09-20	15
17	✗?	Concept Evaluation				
18		Winnowing	1 day	Mon 19-09-23	Mon 19-09-23	
19		Ranking - Pugh Chart	1 day	Mon 19-09-23	Mon 19-09-23	
20		Scoring - WDM	1 day	Wed 19-09-25	Wed 19-09-25	19,18
21		Optimization	2 days	Fri 19-09-27	Mon 19-09-30	20
22		DFMEA 1	3 days	Mon 19-09-30	Wed 19-10-02	
23		Concept selection presentation	6 days	Wed 19-10-02	Wed 19-10-09	
24	✗?	Design				

24	✗?	Design				
25		First set of iterations (of final concept)	1 day	Fri 19-10-11	Fri 19-10-11	
26		Calculations & stress analysis	5 days	Mon 19-10-14	Fri 19-10-18	
27		Preliminary costing & LCA	5 days	Mon 19-10-14	Fri 19-10-18	
28		Second set of iterations	5 days	Mon 19-10-21	Fri 19-10-25	
29		Secondary costing & LCA	5 days	Mon 19-10-21	Fri 19-10-25	
30		DFMEA 2	3 days	Wed 19-10-23	Fri 19-10-25	
31		Complete detailed CAD of key components	5 days	Mon 19-10-21	Fri 19-10-25	
32	✗?	Closeout				
33		Report mock deadline	21 days	Fri 19-10-11	Fri 19-11-08	
34		Report actual deadline	26 days	Fri 19-10-11	Fri 19-11-15	
35		Presentation mock deadline	6 days	Fri 19-11-08	Fri 19-11-15	
36		Presentation actual deadline	9 days	Fri 19-11-08	Wed 19-11-20	
37		Logbook submission	2 days	Thu 19-11-28	Fri 19-11-29	

Research BCMOS background and their need statements. Clarify in Q&A section.

Research current wheelchair specifications

Research available markets

Research other products

Choose our market stakeholders and determine needs

Create preliminary target specifications

Determine project constraints

Determine overall project scope

Create a Risk Register

Function decomposition

C-sketch round 1

First set of concept combination

C-sketch round 2

Concept combination (complete concepts)

Winnowing

Ranking - Pugh Chart

Scoring - WDM

Optimization

DFMEA 1

Concept selection presentation

First set of iterations (of final concept)

Calculations & stress analysis

Preliminary costing & LCA

Second set of iterations

Secondary costing & LCA

DFMEA 2

Complete detailed CAD of key components

Report mock deadline

Report actual deadline

Presentation mock deadline

Presentation actual deadline