ID	WBS	Task Name	Duration	4th Quarter			1st Quarter			2nd Quarter			3rd Quarter			4th Quart
				Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
1	1	**Automated Bus**	**247 days**														
2	**1.1**	**Researching Information and Statistics**	**43 days**														
3	**1.1.1**	**Meeting**	**5 days**														
4	**1.1.1.1**	**Kick Off Meeting**	**1 day**														
5	1.1.1.1.1	Participants introduction.	1 day														
6	1.1.1.1.2	Present the project goals. In this case gathering information.	1 day														
7	1.1.1.1.3	Setting the objectives	1 day														
8	1.1.1.1.4	Communication Plan.	1 day														
9	1.1.1.1.5	Feedback and Closure.	1 day														
10	**1.1.1.2**	**Planning Meeting**	**1 day**														
11	1.1.1.2.1	Confirm objectives.	1 day														
12	1.1.1.2.2	Develop the plan.	1 day														
13	1.1.1.2.3	Assign roles and responsibilities.	1 day														
14	1.1.1.2.4	Defining and assigning tasks.	1 day														
15	1.1.1.2.5	Create requirement document and RTM.	1 day														
16	**1.1.1.3**	**Status Meeting**	**1 day**														
17	1.1.1.3.1	Project review.	1 day														
18	1.1.1.3.2	Obtain current state of the project.	1 day														
19	1.1.1.3.3	Identify bottlenecks.	1 day														
20	1.1.1.3.4	Need for timeline changes.	1 day														
21	1.1.1.3.5	Feedback and Closure	1 day														
22	**1.1.1.4**	**Review Meeting**	**1 day**														
23	1.1.1.4.1	Selecting certain milestones.	1 day														
24	1.1.1.4.2	Checking milestone status.	1 day														
25	1.1.1.4.3	Discussing issues and lessons learned.	1 day														
26	1.1.1.4.4	Corrective actions.	1 day														
27	1.1.1.4.5	Updating milestone report.	1 day														
28	**1.1.1.5**	**Sign-Off Meeting**	**1 day**														
29	1.1.1.5.1	Participants introduction.	1 day														

ID	WBS	Task Name	Duration	4th Quarter Oct / Nov / Dec	1st Quarter Jan / Feb / Mar	2nd Quarter Apr / May / Jun	3rd Quarter Jul / Aug / Sep	4th Quart Oct
30	1.1.1.5.2	Recap the information in the Requirements Report.	1 day					
31	1.1.1.5.3	Check if all the all the requirements are met.	1 day					
32	1.1.1.5.4	Close the project if yes.	1 day					
33	1.1.1.5.5	Feedback and Closure.	1 day					
34	**1.1.2**	**Interviews**	**14 days**					
35	**1.1.2.1**	**Stakeholder Identification**	**2 days**					
36	1.1.2.1.1	Identifying people involving and affected by project.	1 day					
37	1.1.2.1.2	Categorizing people.	1 day					
38	1.1.2.1.3	Formalizing Internal project stakeholders.	1 day					
39	1.1.2.1.4	Formalizing external project stakeholders.	1 day					
40	1.1.2.1.5	Update Stakeholder register.	1 day					
41	**1.1.2.2**	**Prioritizing Stakeholders**	**3 days**					
42	1.1.2.2.1	Perform Stakeholder Analysis.	1 day					
43	1.1.2.2.2	Perform Expert Judgment.	2 days					
44	1.1.2.2.3	Create stakeholders matrix.	2 days					
45	1.1.2.2.4	Assign priorities.	1 day					
46	1.1.2.2.5	Update Stakeholder register.	1 day					
47	**1.1.2.3**	**Notifying Stakeholders**	**4 days**					
48	1.1.2.3.1	Obtain list of stakeholders.	1 day					
49	1.1.2.3.2	List out the platforms available for requesting stakeholder participation.	2 days					
50	1.1.2.3.3	Finalize the platform.	1 day					
51	1.1.2.3.4	Finalize the format for the notification.	2 days					
52	1.1.2.3.5	Request stakeholder for their participation.	1 day					
53	**1.1.2.4**	**Request for appointment**	**2 days**					
54	1.1.2.4.1	Obtain list of stakeholders participating.	1 day					
55	1.1.2.4.2	Create the interviews schedule.	1 day					
56	1.1.2.4.3	Request stakeholder for their participation from the schedule.	1 day					

ID	WBS	Task Name	Duration	Sep	4th Quarter Oct	Nov	Dec	1st Quarter Jan	Feb	Mar	2nd Quarter Apr	May	Jun	3rd Quarter Jul	Aug	Sep	4th Quart Oct
57	1.1.2.4.4	Obtain the responses.	1 day														
58	1.1.2.4.5	Confirm the interview timing for the stakeholders.	1 day														
59	**1.1.2.5**	**Conduct Interview**	**5 days**														
60	1.1.2.5.1	Select the list people conducting interviews.	1 day														
61	1.1.2.5.2	Create the interview panels.	1 day														
62	1.1.2.5.3	Conduct interviews.	3 days														
63	1.1.2.5.4	Log the responses from the stakeholders.	3 days														
64	1.1.2.5.5	Forward responses analysis.	2 days														
65	**1.1.3**	**Surveys**	**13 days**														
66	**1.1.3.1**	**Target User Base**	**2 days**														
67	1.1.3.1.1	Identifying people utilizing or affected by project.	1 day														
68	1.1.3.1.2	Categorizing Users.	1 day														
69	1.1.3.1.3	Formalizing user base.	1 day														
70	1.1.3.1.4	Create users base matrix.	1 day														
71	1.1.3.1.5	Update Survey Tracker Doc.	1 day														
72	**1.1.3.2**	**Narrow down User Base**	**3 days**														
73	1.1.3.2.1	Perform User Base analysis.	1 day														
74	1.1.3.2.2	Prioritize the user present based on application functionality.	1 day														
75	1.1.3.2.3	Shortlist the users	1 day														
76	1.1.3.2.4	Set backup for the shortlisted users.	1 day														
77	1.1.3.2.5	Update Survey Tracker Doc.	1 day														
78	**1.1.3.3**	**Prepare Survey**	**3 days**														
79	1.1.3.3.1	Decide on what questions to be asked.	1 day														
80	1.1.3.3.2	Ratio of Open-ended & closed questions.	1 day														
81	1.1.3.3.3	Types of response formats.	1 day														
82	1.1.3.3.4	Layout of the questionnaire	1 day														
83	1.1.3.3.5	List platforms used for survey.	2 days														
84	**1.1.3.4**	**Finalize Survey**	**2 days**														

ID	WBS	Task Name	Duration	4th Quarter			1st Quarter			2nd Quarter			3rd Quarter			4th Quart
				Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
85	1.1.3.4.1	Finalize questions to be asked.	2 days														
86	1.1.3.4.2	Finalize Ratio of Open-ended & closed questions.	1 day														
87	1.1.3.4.3	Finalize responses formats.	1 day														
88	1.1.3.4.4	Finalize Layout of the questionnaire.	1 day														
89	1.1.3.4.5	Finalize platform used for survey.	1 day														
90	**1.1.3.5**	**Organize Survey**	**6 days**														
91	1.1.3.5.1	Notify users about the survey.	1 day														
92	1.1.3.5.2	Request user participation.	1 day														
93	1.1.3.5.3	Request the user for the best possible time for survey.	1 day														
94	1.1.3.5.4	Conduct survey.	3 days														
95	1.1.3.5.5	Update Survey Tracker Doc.	1 day														
96	**1.1.4**	**Prototyping**	**27 days**														
97	**1.1.4.1**	**Plan and Develop**	**8 days**														
98	1.1.4.1.1	Define Objective.	1 day														
99	1.1.4.1.2	Define Scope.	1 day														
100	1.1.4.1.3	Obtain sign-off from stakeholders.	1 day														
101	1.1.4.1.4	Modify objective or scope based on feedback.	1 day														
102	1.1.4.1.5	Develop prototype.	5 days														
103	**1.1.4.2**	**Evaluating by Testing**	**5 days**														
104	1.1.4.2.1	Identify the data to be used.	1 day														
105	1.1.4.2.2	Modify the data as per the need .	1 day														
106	1.1.4.2.3	Define test scenarios.	2 days														
107	1.1.4.2.4	Execute test scenarios.	2 days														
108	1.1.4.2.5	Provide feedback.	1 day														
109	**1.1.4.3**	**Evaluating By Users & Stakeholders.**	**7 days**														
110	1.1.4.3.1	Identify users and stakeholder for evaluating.	1 day														
111	1.1.4.3.2	Request for their participation.	1 day														

ID	WBS	Task Name	Duration
112	1.1.4.3.3	Provide them with necessary equipment.	2 days
113	1.1.4.3.4	Provide them with necessary documents.	2 days
114	1.1.4.3.5	Request their feedback.	1 day
115	**1.1.4.4**	**Impact Assessment**	**5 days**
116	1.1.4.4.1	Obtain feedback from testing.	1 day
117	1.1.4.4.2	Obtain feedback from user and stakeholder evaluation.	1 day
118	1.1.4.4.3	Refine the things to be modified or added to the prototype.	1 day
119	1.1.4.4.4	Obtain sign-off from stakeholders.	1 day
120	1.1.4.4.5	Develop and evaluate prototype again.	3 days
121	**1.1.4.5**	**Finalize based on Evaluation.**	**3 days**
122	1.1.4.5.1	Establish the prototype to be final.	1 day
123	1.1.4.5.2	Obtain sign-off from stakeholders.	1 day
124	1.1.4.5.3	Refine if any feedback provided.	1 day
125	1.1.4.5.4	Update documents.	1 day
126	1.1.4.5.5	Forward results for further analysis	1 day
127	**1.1.5**	**Statistics**	**37 days**
128	**1.1.5.1**	**Gather Info on Need of this application**	**5 days**
129	1.1.5.1.1	List of ways gather info.	1 day
130	1.1.5.1.2	Organize Interviews.	2 days
131	1.1.5.1.3	Conduct Surveys.	2 days
132	1.1.5.1.4	Develop prototype.	2 days
133	1.1.5.1.5	Update Statistics report.	1 day
134	**1.1.5.2**	**Analysis Interviews**	**5 days**
135	1.1.5.2.1	Obtain the log sheet of the responses received.	1 day
136	1.1.5.2.2	Conduct a review meeting	2 days
137	1.1.5.2.3	Show the stats in the meeting.	1 day
138	1.1.5.2.4	Analyze the stats and Come up with closure.	1 day
139	1.1.5.2.5	Update Statistics report.	1 day

ID	WBS	Task Name	Duration	Sep	4th Quarter Oct	Nov	Dec	1st Quarter Jan	Feb	Mar	2nd Quarter Apr	May	Jun	3rd Quarter Jul	Aug	Sep	4th Quart Oct
140	**1.1.5.3**	**Analysis Surveys**	**5 days**														
141	1.1.5.3.1	Obtain the Survey Tracker Doc.	1 day														
142	1.1.5.3.2	Conduct a review meeting	2 days														
143	1.1.5.3.3	Show the stats in the meeting.	1 day														
144	1.1.5.3.4	Analyze the stats and Come up with closure.	1 day														
145	1.1.5.3.5	Update Statistics report.	1 day														
146	**1.1.5.4**	**Prototype Responses**	**4 days**														
147	1.1.5.4.1	Obtain the porotype evaluation report.	1 day														
148	1.1.5.4.2	Conduct a review meeting.	2 days														
149	1.1.5.4.3	Obtain responses.	1 day														
150	1.1.5.4.4	Check for any major design related feedback.	1 day														
151	1.1.5.4.5	Update Statistics report.	1 day														
152	**1.1.5.5**	**Conclude Analysis**	**1 day**														
153	1.1.5.5.1	Organize a Sign-Off meeting.	1 day														
154	1.1.5.5.2	Invite all the departments involved for the Information gathering task.	1 day														
155	1.1.5.5.3	Proved the result of the actives conducted.	1 day														
156	1.1.5.5.4	Justify the changes if any.	1 day														
157	1.1.5.5.5	Feedback and Closure.	1 day														
158	**1.2**	**Acquiring Equipment**	**94 days**														
159	**1.2.1**	**Required Hardware**	**12 days**														
160	**1.2.1.1**	**Conduct a Kick Off Meeting**	**1 day**														
161	1.2.1.1.1	Introduce the attendees.	1 day														
162	1.2.1.1.2	Explain project goals to attendees.	1 day														
163	1.2.1.1.3	Discuss project organizational structure.	1 day														
164	1.2.1.1.4	Create list of action items	1 day														
165	1.2.1.1.5	Decide date and time of future meetings.	1 day														
166	**1.2.1.2**	**Organize a Brainstorming Session for ideas**	**1 day**														
167	1.2.1.2.1	Explain the project scope,time and cost goals to attendees in depth.	1 day														

ID	WBS	Task Name	Duration	Sep	4th Quarter Oct	Nov	Dec	1st Quarter Jan	Feb	Mar	2nd Quarter Apr	May	Jun	3rd Quarter Jul	Aug	Sep	4th Quart Oct
168	1.2.1.2.2	Discuss about similar projects by competitors.	1 day														
169	1.2.1.2.3	Brainstorm ideas using mind mapping technique.	1 day														
170	1.2.1.2.4	Document those ideas in a word document.	1 day														
171	1.2.1.2.5	Decide date and time of future brainstorm sessions.	1 day														
172	**1.2.1.3**	**Create a 'concept' design of the bus**	**8 days**														
173	1.2.1.3.1	Refer doc from brainstorming.	1 day														
174	1.2.1.3.2	Acquire design specifications of existing UNC-C buses.	2 days														
175	1.2.1.3.3	Incorporate brainstormed ideas with the existing UNC-C bus design.	3 days														
176	1.2.1.3.4	Create a 3D 'concept' design..	3 days														
177	1.2.1.3.5	Distribute the 'concept' design.	1 day														
178	**1.2.1.4**	**Come up with a list of required hardware**	**3 days**														
179	1.2.1.4.1	Refer the concept design.	1 day														
180	1.2.1.4.2	Have another brainstorming session to discuss how to implement the concept practically.	1 day														
181	1.2.1.4.3	Come up with list of hardware possibly required for our project.	2 days														
182	1.2.1.4.4	Refine the list to exact HW required for our project with quantity.	2 days														
183	1.2.1.4.5	Discuss about vendors.	1 day														
184	**1.2.1.5**	**Distribute workload amongst teams**	**2 days**														
185	1.2.1.5.1	Organize a survey to identify strengths of members.	1 day														
186	1.2.1.5.2	See the results of the survey.	1 day														
187	1.2.1.5.3	Assign tasks to member of HW team according to their expertise.	1 day														
188	1.2.1.5.4	Document the teams in a word doc.	1 day														

ID	WBS	Task Name	Duration	4th Quarter	1st Quarter	2nd Quarter	3rd Quarter	4th Quart
				Sep Oct Nov Dec	Jan Feb Mar	Apr May Jun	Jul Aug Sep	Oct
189	1.2.1.5.5	Contact H.R. to equalize the teams.	1 day					
190	**1.2.2**	**Getting Required Hardware**	**16 days**					
191	**1.2.2.1**	**Advertise the requirement**	**4 days**					
192	1.2.2.1.1	Design advertisements specifying the required HW.	2 days					
193	1.2.2.1.2	Identify popular magazines, newspapers and online forums.	2 days					
194	1.2.2.1.3	Find about cost for publishing	1 day					
195	1.2.2.1.4	Contact and pay the media.	1 day					
196	1.2.2.1.5	Publish the advertisements.	1 day					
197	**1.2.2.2**	**Receive responses from vendors**	**3 days**					
198	1.2.2.2.1	Assign a member to take responses.	1 day					
199	1.2.2.2.2	Check email,fax and phone on daily basis.	3 days					
200	1.2.2.2.3	Document all responses in a word doc.	3 days					
201	1.2.2.2.4	Group vendors according to their respective expertise.	3 days					
202	1.2.2.2.5	Publish this document to stakeholders.	1 day					
203	**1.2.2.3**	**Short list vendors**	**3 days**					
204	1.2.2.3.1	Refer the list of vendors.	2 days					
205	1.2.2.3.2	Research about vendors.	2 days					
206	1.2.2.3.3	Prioritize vendor list according to quality and popularity.	1 day					
207	1.2.2.3.4	Get inputs from stakeholders.	2 days					
208	1.2.2.3.5	Create a document with details of shortlisted vendors.	1 day					
209	**1.2.2.4**	**Give response and Negotiate on price quotes**	**4 days**					
210	1.2.2.4.1	Appoint a good negotiator and conservationist for this task.	1 day					
211	1.2.2.4.2	Call each short listed vendor.	2 days					
212	1.2.2.4.3	Get price quotes.	2 days					
213	1.2.2.4.4	Negotiate on price quotes,	2 days					

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214	1.2.2.4.5	Create a document having details of price quotes post negotiations.	1 day														
215	**1.2.2.5**	**Place an order for required hardware**	**4 days**														
216	1.2.2.5.1	Choose the vendors offering the best value for money.	1 day														
217	1.2.2.5.2	Create a formal quotation.	2 days														
218	1.2.2.5.3	Send that quotation to all shortlisted vendors.	2 days														
219	1.2.2.5.4	Come up with terms and agreements for payment and supply.	1 day														
220	1.2.2.5.5	Place the final order.	1 day														
221	**1.2.3**	**Installing and Configuring HW**	**21 days**														
222	**1.2.3.1**	**Verify and update order**	**2 days**														
223	1.2.3.1.1	Receive shipment of HW at Prospector.	1 day														
224	1.2.3.1.2	Verify the consignment.	1 day														
225	1.2.3.1.3	Notify the vendor in case of any discrepancies or issues.	1 day														
226	1.2.3.1.4	Send an updated order in case more HW is required.	1 day														
227	1.2.3.1.5	Update the order.	1 day														
228	**1.2.3.2**	**Store acquired HW in warehouse**	**3 days**														
229	1.2.3.2.1	Assign on-campus logistics staff.	1 day														
230	1.2.3.2.2	Transfer the HW from shipment location to a UNC-C truck.	1 day														
231	1.2.3.2.3	The truck will transit the equipment to our warehouse.	1 day														
232	1.2.3.2.4	At the warehouse store the equipment according to categories. (GPS,Sensors etc)	2 days														
233	1.2.3.2.5	Create a log of what comes in the warehouse.	1 day														
234	**1.2.3.3**	**Transfer HW from warehouse to mechanical workshop based on demand**	**2 days**														

ID	WBS	Task Name	Duration	4th Quarter	1st Quarter	2nd Quarter	3rd Quarter	4th Quart
235	1.2.3.3.1	Get notification from mechanical team about required HW.	1 day					
236	1.2.3.3.2	Search the warehouse for required HW.	1 day					
237	1.2.3.3.3	Sort and transfer the HW in a truck.	1 day					
238	1.2.3.3.4	Truck will transit the data to the mechanical workshop.	2 days					
239	1.2.3.3.5	Create a log of what goes out of the warehouse.	1 day					
240	**1.2.3.4**	**Install HW in buses**	**12 days**					
241	1.2.3.4.1	Assign a mechanic team to work.	10 days					
242	1.2.3.4.2	Refer the 'concept' designs.	10 days					
243	1.2.3.4.3	Read instructions from vendors.	10 days					
244	1.2.3.4.4	Install the hardware.	10 days					
245	1.2.3.4.5	Create a check log of what parts are installed on what buses.	4 days					
246	**1.2.3.5**	**Configure HW in buses**	**4 days**					
247	1.2.3.5.1	Assign an engineer to configure HW.	3 days					
248	1.2.3.5.2	Configure the HW to work with UNCC buses.	3 days					
249	1.2.3.5.3	Test and verify the configuration.	3 days					
250	1.2.3.5.4	Report any issues if encountered.	2 days					
251	1.2.3.5.5	Create a report specifying details of any issues.	1 day					
252	**1.2.4**	**Testing The HW**	**42 days**					
253	**1.2.4.1**	**Meeting to decide test plan**	**5 days**					
254	1.2.4.1.1	Send invites to the testing team.	1 day					
255	1.2.4.1.2	Review the report from the hardware configuration team.	2 days					
256	1.2.4.1.3	Create test cases to test the buses.	4 days					
257	1.2.4.1.4	Document any ideas from the meeting.	1 day					
258	1.2.4.1.5	Decide date and time of future meetings.	1 day					
259	**1.2.4.2**	**Transfer the bus to the test facility**	**4 days**					
260	1.2.4.2.1	Drive the buses to the testing facility.	3 days					

ID	WBS	Task Name	Duration	4th Quarter	1st Quarter	2nd Quarter	3rd Quarter	4th Quart
261	1.2.4.2.2	Store the buses in storage.	1 day					
262	1.2.4.2.3	Receive request from testing team.	1 day					
263	1.2.4.2.4	Transfer the bus to the testing bay.	1 day					
264	1.2.4.2.5	Store the bus in testing bay.	1 day					
265	**1.2.4.3**	**Perform the tests in testing field**	**18 days**					
266	1.2.4.3.1	Take the bus to the testing field.	1 day					
267	1.2.4.3.2	Perform mechanical tests.	5 days					
268	1.2.4.3.3	Perform emission tests.	6 days					
269	1.2.4.3.4	Perform safety tests.	5 days					
270	1.2.4.3.5	Record test results.	2 days					
271	**1.2.4.4**	**Fix issues**	**10 days**					
272	1.2.4.4.1	Review the test results log.	3 days					
273	1.2.4.4.2	Assign a repair team.	1 day					
274	1.2.4.4.3	Identify and record the issue.	1 day					
275	1.2.4.4.4	Fix the issue.	7 days					
276	1.2.4.4.5	Create a log of fixed issues and unrepairable issues.	1 day					
277	**1.2.4.5**	**Manage issues with Failed hardware**	**5 days**					
278	1.2.4.5.1	Review the log of unrepairable issues.	2 days					
279	1.2.4.5.2	Verify the failed HW.	2 days					
280	1.2.4.5.3	Create a return request.	1 day					
281	1.2.4.5.4	Ship the failed HW.	2 days					
282	1.2.4.5.5	Get the replacement.	1 day					
283	**1.2.5**	**Future Scope & Upgrades**	**31 days**					
284	**1.2.5.1**	**R&D Meeting**	**6 days**					
285	1.2.5.1.1	Invite people to the meeting.	1 day					
286	1.2.5.1.2	Review current status.	2 days					
287	1.2.5.1.3	Brainstorm upgrade ideas.	2 days					
288	1.2.5.1.4	Create a research and development plan.	2 days					
289	1.2.5.1.5	Decide date and time of future meetings.	1 day					
290	**1.2.5.2**	**Perform the research**	**5 days**					

ID	WBS	Task Name	Duration	4th Quarter	1st Quarter	2nd Quarter	3rd Quarter	4th Quart
291	1.2.5.2.1	Review R&D plan.	2 days					
292	1.2.5.2.2	Record Statistics.	1 day					
293	1.2.5.2.3	Review data from statistics.	2 days					
294	1.2.5.2.4	Review latest technologies in the market.	3 days					
295	1.2.5.2.5	Create upgrade plan	1 day					
296	**1.2.5.3**	**Determine upgrades**	**5 days**					
297	1.2.5.3.1	Review the development and upgrades plan.	2 days					
298	1.2.5.3.2	Verify if the upgrades are feasible.	1 day					
299	1.2.5.3.3	Approve the feasible upgrades.	2 days					
300	1.2.5.3.4	Inform the research team about budget.	1 day					
301	1.2.5.3.5	Create upgrades report.	1 day					
302	**1.2.5.4**	**Perform upgrades**	**5 days**					
303	1.2.5.4.1	Review report.	1 day					
304	1.2.5.4.2	Identify vendors.	1 day					
305	1.2.5.4.3	Create order.	1 day					
306	1.2.5.4.4	Place order.	1 day					
307	1.2.5.4.5	Install upgrades.	3 days					
308	**1.2.5.5**	**Test upgrades**	**15 days**					
309	1.2.5.5.1	Create a test plan.	2 days					
310	1.2.5.5.2	Perform tests.	5 days					
311	1.2.5.5.3	Record results.	5 days					
312	1.2.5.5.4	Identify Issues.	1 day					
313	1.2.5.5.5	Fix issues.	8 days					
314	**1.3**	**Programming and Installing Software**	**119 days**					
315	**1.3.1**	**Requirements Gathering**	**27 days**					
316	**1.3.1.1**	**Conduct an explanation meeting**	**4 days**					
317	1.3.1.1.1	Select participants.	1 day					
318	1.3.1.1.2	Invite participants.	2 days					
319	1.3.1.1.3	Introduce particiapants.	1 day					
320	1.3.1.1.4	State project goals and objectives.	1 day					

ID	WBS	Task Name	Duration										
				Sep	4th Quarter Oct Nov Dec	1st Quarter Jan Feb Mar	2nd Quarter Apr May Jun	3rd Quarter Jul Aug Sep	4th Quart Oct				
321	1.3.1.1.5	Document the discussions in a word document.	1 day										
322	**1.3.1.2**	**Decide on best development approach**	**9 days**										
323	1.3.1.2.1	Review all different SDLC models.	2 days										
324	1.3.1.2.2	Create case studies of all models.	5 days										
325	1.3.1.2.3	Analyze and apply all models to our project.	2 days										
326	1.3.1.2.4	Compare the results.	1 day										
327	1.3.1.2.5	Select the best model.	1 day										
328	**1.3.1.3**	**Gather ideas for project**	**5 days**										
329	1.3.1.3.1	Organise brainstorming sesssions.	1 day										
330	1.3.1.3.2	Perform Surveys.	2 days										
331	1.3.1.3.3	Review similar projects.	1 day										
332	1.3.1.3.4	Get user feedback.	2 days										
333	1.3.1.3.5	Note down the ideas.	1 day										
334	**1.3.1.4**	**Create a software requirements specification report**	**5 days**										
335	1.3.1.4.1	Review ideas.	1 day										
336	1.3.1.4.2	Choose the best ideas.	2 days										
337	1.3.1.4.3	Choose the best ideas.	2 days										
338	1.3.1.4.4	Decide a general format for the report.	1 day										
339	1.3.1.4.5	Make the report.	1 day										
340	**1.3.1.5**	**Divide the workload amongst teams**	**7 days**										
341	1.3.1.5.1	Identify skills required for development.	2 days										
342	1.3.1.5.2	Conduct a survey to identify skillset of employees.	3 days										
343	1.3.1.5.3	Select the best teams based on skillset.	2 days										
344	1.3.1.5.4	Forward a copy of requirements report.	1 day										
345	1.3.1.5.5	Note down the workload division.	1 day										
346	**1.3.2**	**Planning**	**16 days**										
347	**1.3.2.1**	**Planning poker meeting**	**2 days**										
348	1.3.2.1.1	Assign a meeting location.	1 day										

ID	WBS	Task Name	Duration	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
349	1.3.2.1.2	Assign a meeting time.	1 day														
350	1.3.2.1.3	Identify the attendees.	1 day														
351	1.3.2.1.4	Notify meeting attendees of location/time	1 day														
352	1.3.2.1.5	Send formal invitations.	1 day														
353	**1.3.2.2**	**Organize story tasks**	**5 days**														
354	1.3.2.2.1	Read all story tasks.	1 day														
355	1.3.2.2.2	Organize by assigning numbers.	2 days														
356	1.3.2.2.3	Organize by assigning names.	2 days														
357	1.3.2.2.4	Upload story task to storyboard.	1 day														
358	1.3.2.2.5	Record story tasks in a document.	1 day														
359	**1.3.2.3**	**Size story tasks**	**3 days**														
360	1.3.2.3.1	Log onto planning poker/distribute planning poker cards	1 day														
361	1.3.2.3.2	Read one story to group	1 day														
362	1.3.2.3.3	Ask any questions about the story	1 day														
363	1.3.2.3.4	Each member sizes the story	1 day														
364	1.3.2.3.5	Record in a document.	1 day														
365	**1.3.2.4**	**Record story tasks**	**3 days**														
366	1.3.2.4.1	Record each members story size	1 day														
367	1.3.2.4.2	Come to a group consensus	1 day														
368	1.3.2.4.3	Record group consensus	1 day														
369	1.3.2.4.4	Create summary of recorded story tasks	1 day														
370	1.3.2.4.5	Email team members the summary of recorded story tasks	1 day														
371	**1.3.2.5**	**Update story tasks**	**3 days**														
372	1.3.2.5.1	Review the story tasks.	1 day														
373	1.3.2.5.2	Do disccussions on story tasks.	1 day														
374	1.3.2.5.3	Identify issues with story tasks.	1 day														
375	1.3.2.5.4	Update story tasks to fix issues.	1 day														
376	1.3.2.5.5	Email team members about changes.	1 day														
377	**1.3.3**	**Development**	**51 days**														

ID	WBS	Task Name	Duration	Sep	4th Quarter Oct	Nov	Dec	1st Quarter Jan	Feb	Mar	2nd Quarter Apr	May	Jun	3rd Quarter Jul	Aug	Sep	4th Quart Oct
378	**1.3.3.1**	**Develop Sensing and Simulation**	**7 days**														
379	1.3.3.1.1	Review the requirments report.	1 day														
380	1.3.3.1.2	Dsign user interface.	1 day														
381	1.3.3.1.3	Code the program.	4 days														
382	1.3.3.1.4	Link the user interface to program.	1 day														
383	1.3.3.1.5	Optimise the code.	1 day														
384	**1.3.3.2**	**Create Audio and Visual Notifications**	**8 days**														
385	1.3.3.2.1	Review the requirements report.	1 day														
386	1.3.3.2.2	Design the user interface.	1 day														
387	1.3.3.2.3	Code the program.	4 days														
388	1.3.3.2.4	Link the User Interface to program.	1 day														
389	1.3.3.2.5	Optimise the code.	1 day														
390	**1.3.3.3**	**Create Command Centre Module**	**8 days**														
391	1.3.3.3.1	Review the requirements report.	1 day														
392	1.3.3.3.2	Design the user interface.	1 day														
393	1.3.3.3.3	Code the program.	4 days														
394	1.3.3.3.4	Link the user interface to program.	1 day														
395	1.3.3.3.5	Optimise the code.	1 day														
396	**1.3.3.4**	**Integrate Modules**	**22 days**														
397	1.3.3.4.1	Gather modules from different teams.	4 days														
398	1.3.3.4.2	Perform unit integration.	10 days														
399	1.3.3.4.3	Intergrate the modules.	5 days														
400	1.3.3.4.4	Note down any issues with integration.	2 days														
401	1.3.3.4.5	Forward the issues to programming team.	1 day														
402	**1.3.3.5**	**Develop Software Failue Risk Management Plan**	**7 days**														
403	1.3.3.5.1	Review the potential risks.	5 days														
404	1.3.3.5.2	Setup a backup server at the command centre.	5 days														
405	1.3.3.5.3	Test the bus for software issues.	5 days														
406	1.3.3.5.4	Establish wireless connection.	5 days														
407	1.3.3.5.5	Grant permission to backup server to takeover.	2 days														

ID	WBS	Task Name	Duration
408	**1.3.4**	**Installing**	**29 days**
409	**1.3.4.1**	**Transfer the buses to installation lab**	**4 days**
410	1.3.4.1.1	Select the bus for installation.	1 day
411	1.3.4.1.2	Move the bus from storage area to installation area.	1 day
412	1.3.4.1.3	Choose the lab for installation.	2 days
413	1.3.4.1.4	Move the bus to exact lab.	1 day
414	1.3.4.1.5	Create a bus entry/exit log.	1 day
415	**1.3.4.2**	**Verify if bus is ready for installation**	**3 days**
416	1.3.4.2.1	Check functionality of Engine Control Unit.	2 days
417	1.3.4.2.2	Check functionality of sensors.	2 days
418	1.3.4.2.3	Check funcationality of GPS.	2 days
419	1.3.4.2.4	Check mechanical functionalities.	2 days
420	1.3.4.2.5	Report issues to hardware team.	1 day
421	**1.3.4.3**	**Install the software on bus**	**14 days**
422	1.3.4.3.1	Identify the bus Engine Control Unit.	1 day
423	1.3.4.3.2	Disassemble the Engine Control Unit from bus.	3 days
424	1.3.4.3.3	Connect it to the Computer.	4 days
425	1.3.4.3.4	Perform the software installation.	4 days
426	1.3.4.3.5	Reinstall the engine control unit in bus.	3 days
427	**1.3.4.4**	**Install the command centre software**	**8 days**
428	1.3.4.4.1	Remotely connect the lab to command centre.	1 day
429	1.3.4.4.2	Identify and choose the computer for command centre.	2 days
430	1.3.4.4.3	Install the software in the specific computer.	2 days
431	1.3.4.4.4	Test the software.	3 days
432	1.3.4.4.5	Record any issues if encountered.	3 days
433	**1.3.4.5**	**Transfer the buses back to storage area**	**1 day**

ID	WBS	Task Name	Duration	4th Quarter Sep Oct Nov Dec	1st Quarter Jan Feb Mar	2nd Quarter Apr May Jun	3rd Quarter Jul Aug Sep	4th Quart Oct
434	1.3.4.5.1	Move the bus from installation lab to parking lot.	1 day				∎	
435	1.3.4.5.2	Drive the bus back to storage area.	1 day				∎	
436	1.3.4.5.3	Park the bus in the storage area.	1 day				∎	
437	1.3.4.5.4	Update the bus entry/exit log at storage area.	1 day				∎	
438	1.3.4.5.5	Update the bus entry/exit log at lab.	1 day				∎	
439	**1.3.5**	**Setting Up Command Centre**	**60 days**			⌐────────⌐		
440	**1.3.5.1**	**Identify the location**	**11 days**			⌐─⌐		
441	1.3.5.1.1	Review the university's computer labs.	1 day			∎		
442	1.3.5.1.2	Identify the lab with best specifications for the project.	2 days			∎∎		
443	1.3.5.1.3	Take permission for using the lab as command centre	3 days			∎∎		
444	1.3.5.1.4	Assign command centre staff.	2 days			∎∎		
445	1.3.5.1.5	Note down the specifics of command centre.	5 days			∎∎		
446	**1.3.5.2**	**Setup the equipment**	**21 days**			⌐───⌐		
447	1.3.5.2.1	Install desktop computers.	5 days			▬		
448	1.3.5.2.2	Install servers.	10 days			▬▬		
449	1.3.5.2.3	Install backup server.	10 days			▬▬		
450	1.3.5.2.4	Install visual display for navigation of buses.	15 days			▬▬▬		
451	1.3.5.2.5	Setup internet connectivity	5 days			▬		
452	**1.3.5.3**	**Manage Risk for Revocation of Command Centre**	**2 days**			▮		
453	1.3.5.3.1	Review the permission from university.	1 day			∎		
454	1.3.5.3.2	Renew the permission if expired.	1 day			∎		
455	1.3.5.3.3	Find a new computer lab on campus.	1 day			∎		
456	1.3.5.3.4	Find a new command centre location off campus	1 day			∎		
457	1.3.5.3.5	Assign a new command centre staff if needed.	1 day			∎		
458	**1.3.5.4**	**Maintenance of Command Centre**	**10 days**			⌐─⌐		

ID	WBS	Task Name	Duration	4th Quarter			1st Quarter			2nd Quarter			3rd Quarter			4th Quart
				Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
459	1.3.5.4.1	Verify the functioning of hardware and software.	2 days													
460	1.3.5.4.2	Identify issues with hardware and software.	2 days													
461	1.3.5.4.3	Report the issues to the maintenance team.	2 days													
462	1.3.5.4.4	Fix the issues with software.	2 days													
463	1.3.5.4.5	Replace the malfunctioning hardware.	5 days													
464	**1.3.5.5**	**Training of Command Centre Staff**	**16 days**													
465	1.3.5.5.1	Handout surveys to all current employees.	1 day													
466	1.3.5.5.2	See the results of the survey.	1 day													
467	1.3.5.5.3	Identify and note down the strengths and weaknesses of employees.	3 days													
468	1.3.5.5.4	Organize training sessions for weak skill sets.	10 days													
469	1.3.5.5.5	Validate the training done by handing out quizzes.	2 days													
470	**1.4**	**Legal Permits**	**129 days**													
471	**1.4.1**	**Discussion about legal issues**	**39 days**													
472	**1.4.1.1**	**Meet with team**	**1 day**													
473	1.4.1.1.1	Setup a meeting	1 day													
474	1.4.1.1.2	Setup an agenda for meeting	1 day													
475	1.4.1.1.3	Talk about the features	1 day													
476	1.4.1.1.4	Identify legal issues	1 day													
477	1.4.1.1.5	List out critical points	1 day													
478	**1.4.1.2**	**Meet legal expert in university**	**1 day**													
479	1.4.1.2.1	Setup meeting with university legal expert	1 day													
480	1.4.1.2.2	Explain the project	1 day													
481	1.4.1.2.3	Get an idea about legal issues	1 day													
482	1.4.1.2.4	Discuss solutions	1 day													
483	1.4.1.2.5	List out favorable solutions	1 day													
484	**1.4.1.3**	**Check out lawyers**	**23 days**													
485	1.4.1.3.1	Check out the legal issues that pertain	2 days													
486	1.4.1.3.2	Check lawyers that are into these issues	5 days													

ID	WBS	Task Name	Duration	4th Quarter			1st Quarter			2nd Quarter			3rd Quarter			4th Quart
				Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
487	1.4.1.3.3	List out favourable lawyers	10 days														
488	1.4.1.3.4	Show the team the list	3 days														
489	1.4.1.3.5	Discuss with team	3 days														
490	**1.4.1.4**	**Meeting lawyers**	**13 days**														
491	1.4.1.4.1	Get contacts of all lawyers	3 days														
492	1.4.1.4.2	Send them a request for meeting	2 days														
493	1.4.1.4.3	Setup meetings with them	5 days														
494	1.4.1.4.4	Discuss our issues	2 days														
495	1.4.1.4.5	List out the discussions with each lawyer	2 days														
496	**1.4.1.5**	**Finalizing lawyer**	**1 day**														
497	1.4.1.5.1	Call meeting with team	2 days														
498	1.4.1.5.2	Show them solutions provided by each lawyer	2 days														
499	1.4.1.5.3	Discuss pros/cons for each	2 days														
500	1.4.1.5.4	Discuss which lawyer is suitable	2 days														
501	1.4.1.5.5	Finalise and select one lawyer	2 days														
502	**1.4.2**	**Permit from university and DMV**	**22 days**														
503	**1.4.2.1**	**Meeting legal team from university**	**6 days**														
504	1.4.2.1.1	Setup meeting with legal team from university	1 day														
505	1.4.2.1.2	Get idea of issues that university can have	2 days														
506	1.4.2.1.3	Give legal solutions for it	2 days														
507	1.4.2.1.4	Get a reply from them for the same	3 days														
508	1.4.2.1.5	Record all the replies	2 days														
509	**1.4.2.2**	**Meeting legal team from DMV**	**3 days**														
510	1.4.2.2.1	Setup meeting with legal team from DMV	1 day														
511	1.4.2.2.2	Explain the issues learnt from university	1 day														
512	1.4.2.2.3	Discuss the impact on the traffic	1 day														
513	1.4.2.2.4	Discuss the impact on safety of people	1 day														
514	1.4.2.2.5	Record their replies on the same	1 day														
515	**1.4.2.3**	**Meeting with the team**	**6 days**														

ID	WBS	Task Name	Duration	Sep	4th Quarter Oct Nov Dec	1st Quarter Jan Feb Mar	2nd Quarter Apr May Jun	3rd Quarter Jul Aug Sep	4th Quart Oct
516	1.4.2.3.1	Setup meeting with the team	1 day						
517	1.4.2.3.2	Present the issues mentioned by university and DMV's team	2 days						
518	1.4.2.3.3	Check if there can be changes in feature to solve them	2 days						
519	1.4.2.3.4	Check if they have any other suggestions	2 days						
520	1.4.2.3.5	Record the suggestions	2 days						
521	**1.4.2.4**	**Meeting with lawyer**	**3 days**						
522	1.4.2.4.1	Setup meeting with the lawyer	1 day						
523	1.4.2.4.2	Show the discussion with university and DMV's legal team	2 days						
524	1.4.2.4.3	Explain the suggestions given by the team	2 days						
525	1.4.2.4.4	Get legal solutions from the lawyer	2 days						
526	1.4.2.4.5	Record these solutions	1 day						
527	**1.4.2.5**	**Finalising permits from university and DMV**	**4 days**						
528	1.4.2.5.1	Present solution given by lawyer	2 days						
529	1.4.2.5.2	Get a reply regarding these solutions	2 days						
530	1.4.2.5.3	Meet University and DMV's legal team with our lawyer	2 days						
531	1.4.2.5.4	Discuss about the permit required	2 days						
532	1.4.2.5.5	Discuss the points that need to be included	2 days						
533	**1.4.3**	**Signing Legal documents**	**18 days**						
534	**1.4.3.1**	**Meet with the lawyer**	**4 days**						
535	1.4.3.1.1	Discuss with our lawyer what goes into the document	2 days						
536	1.4.3.1.2	Refer previous documents	1 day						
537	1.4.3.1.3	See if all leagl issues can be included	1 day						
538	1.4.3.1.4	See if there aren't any loop holes	1 day						
539	1.4.3.1.5	Finalise the document draft	1 day						
540	**1.4.3.2**	**Review documents with university and DMV's legal team**	**5 days**						

ID	WBS	Task Name	Duration	Sep	4th Quarter Oct	Nov	Dec	1st Quarter Jan	Feb	Mar	2nd Quarter Apr	May	Jun	3rd Quarter Jul	Aug	Sep	4th Quart Oct
541	1.4.3.2.1	Setup meeting with legal team from university and DMV	2 days											▍▍			
542	1.4.3.2.2	Present them with the draft	2 days											▍▍			
543	1.4.3.2.3	Check if they require any additional points	2 days											▍▍			
544	1.4.3.2.4	Discuss with lawyer if the addition is possible	1 day											▍			
545	1.4.3.2.5	Make necessary Changes	2 days											▍▍			
546	**1.4.3.3**	**Finalising the changes**	**5 days**											▛▜			
547	1.4.3.3.1	Show chnaged document to university and DMV's legal team	2 days											▍▍			
548	1.4.3.3.2	Get an approval from them	2 days											▍▍			
549	1.4.3.3.3	Take the document to the lawyer	2 days											▍▍			
550	1.4.3.3.4	Record all the changes made to the document from the beginning to end	1 day											▍			
551	1.4.3.3.5	Prepare the final draft of the document	1 day											▍			
552	**1.4.3.4**	**Prepare documents**	**1 day**											▍▍			
553	1.4.3.4.1	Call meeting with team	1 day											▍			
554	1.4.3.4.2	Present document draft	1 day											▍			
555	1.4.3.4.3	Get their take on the document	1 day											▍			
556	1.4.3.4.4	Check if there are issues that can hinder the team technically	1 day											▍			
557	1.4.3.4.5	Prepare the fina the document	1 day											▍			
558	**1.4.3.5**	**Sign Documents**	**3 days**											▛▌			
559	1.4.3.5.1	Take the document to the university expert and get an approval for it	1 day											▍			
560	1.4.3.5.2	Discuss the issues we had between lawyer and university expert	1 day											▍			
561	1.4.3.5.3	Take the document to the legal offices of the university and DMV	1 day											▍			
562	1.4.3.5.4	Take sign of the team on the legal document	1 day											▍			
563	1.4.3.5.5	Take the document to the university and DMV's legal team for them to sign	1 day											▍			
564	**1.4.4**	**Software and hardware licenses**	**15 days**											▙▃▟			

ID	WBS	Task Name	Duration	4th Quarter			1st Quarter			2nd Quarter			3rd Quarter			4th Quart
				Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
565	**1.4.4.1**	**Contact hardware and software vendors**	**4 days**														
566	1.4.4.1.1	Get contact details of vendors	1 day														
567	1.4.4.1.2	Contact the vendors regarding licenses	1 day														
568	1.4.4.1.3	Get a list of equipments, softwares	2 days														
569	1.4.4.1.4	Select the ones that we could be using	1 day														
570	1.4.4.1.5	Present that to the team	1 day														
571	**1.4.4.2**	**Discuss the features we need to use**	**2 days**														
572	1.4.4.2.1	Setup meeting with team	2 days														
573	1.4.4.2.2	List the required features	2 days														
574	1.4.4.2.3	Check which features require licenses	2 days														
575	1.4.4.2.4	Inform that to the vendors	1 day														
576	1.4.4.2.5	Get a quote	1 day														
577	**1.4.4.3**	**Discuss cost for the license**	**5 days**														
578	1.4.4.3.1	Setup meeting with vendors	2 days														
579	1.4.4.3.2	Discuss cost of licenses	2 days														
580	1.4.4.3.3	Discuss the time of activation for the licenses	2 days														
581	1.4.4.3.4	Discuss cost of maintainance and if it can be included in the license	2 days														
582	1.4.4.3.5	Records all the discussions for further use	1 day														
583	**1.4.4.4**	**Discuss about the incurring cost with university experts**	**3 days**														
584	1.4.4.4.1	Present the feature list to university experts	2 days														
585	1.4.4.4.2	Present incurring cost	2 days														
586	1.4.4.4.3	Ask if it can be reduced	2 days														
587	1.4.4.4.4	Ask if the cost is reasonable	2 days														
588	1.4.4.4.5	Record their responses and present it to the team	1 day														
589	**1.4.4.5**	**Buy the licenses**	**2 days**														
590	1.4.4.5.1	Contact vendor	1 day														
591	1.4.4.5.2	Send them the final requirement	1 day														
592	1.4.4.5.3	Send them the eqipments and softwares list	1 day														

ID	WBS	Task Name	Duration	Sep	4th Quarter Oct	Nov	Dec	1st Quarter Jan	Feb	Mar	2nd Quarter Apr	May	Jun	3rd Quarter Jul	Aug	Sep	4th Quart Oct
593	1.4.4.5.4	Ask the final quote	1 day														
594	1.4.4.5.5	Send money and buy the licenses	1 day														
595	**1.4.5**	**Renewal of permits and licenses**	**13 days**														
596	**1.4.5.1**	**Review the current legal terms**	**4 days**														
597	1.4.5.1.1	Set up a meeting for discussion.	2 days														
598	1.4.5.1.2	Go through the current legal permits document.	2 days														
599	1.4.5.1.3	Discuss case studies for the current legal document.	2 days														
600	1.4.5.1.4	Spot deficiencies in current legal permit.	1 day														
601	1.4.5.1.5	Document the deficiencies.	1 day														
602	**1.4.5.2**	**Discuss and form new terms for renewal**	**1 day**														
603	1.4.5.2.1	Organise a brainstorming session.	1 day														
604	1.4.5.2.2	Review the deficiencies document from the meeting.	1 day														
605	1.4.5.2.3	Brainstorm ideas to fix the deficiencies.	1 day														
606	1.4.5.2.4	Come up with terms to include those ideas in the current legal permit document.	1 day														
607	1.4.5.2.5	Include the new ideads in the new legal agreement.	1 day														
608	**1.4.5.3**	**Make a final document of legal terms**	**3 days**														
609	1.4.5.3.1	Review the new legal document.	1 day														
610	1.4.5.3.2	Present the document in front of the legal authority.	2 days														
611	1.4.5.3.3	Carry out discussions with legal authority.	2 days														
612	1.4.5.3.4	Come up with final updated legal terms.	1 day														
613	1.4.5.3.5	Create a final document of legal terms.	1 day														
614	**1.4.5.4**	**Acquire the new legal permit**	**1 day**														
615	1.4.5.4.1	Review the final document of legal terms.	1 day														
616	1.4.5.4.2	Send the document to legal authority.	1 day														
617	1.4.5.4.3	Get signature from legal authority.	1 day														
618	1.4.5.4.4	Review the signed document.	1 day														

ID	WBS	Task Name	Duration												
				Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
619	1.4.5.4.5	Publish the terms of agreement.	1 day												
620	**1.4.5.5**	**Manage Risk for missing Renewal**	**4 days**												
621	1.4.5.5.1	Create a quick response leagal team.	1 day												
622	1.4.5.5.2	Reviews terms for renewal miss.	2 days												
623	1.4.5.5.3	Negotiate with concern authority.	2 days												
624	1.4.5.5.4	Get signature from legal authority.	1 day												
625	1.4.5.5.5	Publish the terms of agreement.	1 day												
626	**1.5**	**Hiring Human Resources**	**68 days**												
627	**1.5.1**	**Interviews**	**30 days**												
628	**1.5.1.1**	**Interview questions**	**7 days**												
629	1.5.1.1.1	Consider interview questions that are appropriate for the job title	1 day												
630	1.5.1.1.2	Create interview questions	1 day												
631	1.5.1.1.3	Administer interview questions on interviewee	3 days												
632	1.5.1.1.4	Analyze the results of how the interviewee answered the questions	2 days												
633	1.5.1.1.5	Revise interview questions to make for better interviews in the future	1 day												
634	**1.5.1.2**	**Background check**	**6 days**												
635	1.5.1.2.1	Inform new hire a background check is needed to be hired	1 day												
636	1.5.1.2.2	Apply for background check on new hire	1 day												
637	1.5.1.2.3	Receive results of background check for new hire	2 days												
638	1.5.1.2.4	Analyze results of background check for new hire	1 day												
639	1.5.1.2.5	Make decision on whether new hire is considered to be hired and notify if new hire does not pass the background check	1 day												
640	**1.5.1.3**	**Drug test**	**6 days**												
641	1.5.1.3.1	Make appointment with new hire	1 day												

ID	WBS	Task Name	Duration		4th Quarter			1st Quarter			2nd Quarter			3rd Quarter			4th Quart
				Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
642	1.5.1.3.2	Administer drug test with new hire	2 days														
643	1.5.1.3.3	Submit drug test results to lab	1 day														
644	1.5.1.3.4	Receive drug test results	1 day														
645	1.5.1.3.5	Notify new hire drug test results if they fail the drug test	1 day														
646	**1.5.1.4**	**Interview scheduling**	**11 days**														
647	1.5.1.4.1	Put together a calendar for best interview times	1 day														
648	1.5.1.4.2	Assign interviewer to specific interview dates	2 days														
649	1.5.1.4.3	Assign interviewees to an interview time slot	2 days														
650	1.5.1.4.4	Plan ahead for future interview time slots	2 days														
651	1.5.1.4.5	Review interview schedule and refine interview dates and times	1 day														
652	**1.5.1.5**	**Orientation/onboarding**	**1 day**														
653	1.5.1.5.1	Schedule first day of orientation time and place	1 day														
654	1.5.1.5.2	Prepare powerpoint presentation and meet with general managers	1 day														
655	1.5.1.5.3	Provide a tour of the work environment	1 day														
656	1.5.1.5.4	Provide overview of all processes involved in the job	1 day														
657	1.5.1.5.5	Discuss work policies, dress code, and what is expected of the employees	1 day														
658	**1.5.2**	**Assign roles**	**14 days**														
659	**1.5.2.1**	**Survey**	**2 days**														
660	1.5.2.1.1	New hires are emailed an online survey	1 day														
661	1.5.2.1.2	New hires are to open and fully read the online survey	1 day														
662	1.5.2.1.3	New hires are to complete the online survey	1 day														
663	1.5.2.1.4	New hires are to submit the online survey via email	1 day														

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				Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
664	1.5.2.1.5	New hires are to wait for online survey results	1 day														
665	**1.5.2.2**	**Analyze survey**	**1 day**														
666	1.5.2.2.1	Employees are to download accepted surveys	1 day														
667	1.5.2.2.2	Employees are to review accepted surveys	1 day														
668	1.5.2.2.3	Employees are to analyze accepted surveys	1 day														
669	1.5.2.2.4	Employees are to categorize accepted surveys	1 day														
670	1.5.2.2.5	Employees are to conclude a final analysis of surveys	1 day														
671	**1.5.2.3**	**Prepare list of available roles**	**6 days**														
672	1.5.2.3.1	Take a role of all current employees	1 day														
673	1.5.2.3.2	Review project scope to determine which positions are not filled	2 days														
674	1.5.2.3.3	Put together a document of unfilled positions	2 days														
675	1.5.2.3.4	Analyze the document of unfilled positions	2 days														
676	1.5.2.3.5	Finalize the document of unfilled positions	1 day														
677	**1.5.2.4**	**Student deliverables**	**1 day**														
678	1.5.2.4.1	Attend to work weekly	1 day														
679	1.5.2.4.2	Observe weekly maintenance and enhancements	1 day														
680	1.5.2.4.3	Analyze weekly maintenance and enhancements	1 day														
681	1.5.2.4.4	Record weekly maintenance and enhancements	1 day														
682	1.5.2.4.5	Produce weekly write up	1 day														
683	**1.5.2.5**	**Interviews**	**4 days**														
684	1.5.2.5.1	Determine interviewees	1 day														
685	1.5.2.5.2	Schedule interview time and place	2 days														
686	1.5.2.5.3	Prepare for interview questions	2 days														

ID	WBS	Task Name	Duration	Sep	4th Quarter Oct Nov Dec	1st Quarter Jan Feb Mar	2nd Quarter Apr May Jun	3rd Quarter Jul Aug Sep	4th Quart Oct
687	1.5.2.5.4	Conduct the interview	2 days						
688	1.5.2.5.5	Record results of the interview	1 day						
689	**1.5.3**	**Work details**	**5 days**						
690	**1.5.3.1**	**Students**	**1 day**						
691	1.5.3.1.1	Work 15-20 hours per week	1 day						
692	1.5.3.1.2	Attend all weekly meetings	1 day						
693	1.5.3.1.3	Analyze weekly meetings	1 day						
694	1.5.3.1.4	Create weekly write up	1 day						
695	1.5.3.1.5	Present weekly write up to GM	1 day						
696	**1.5.3.2**	**General manager**	**1 day**						
697	1.5.3.2.1	Coordinate interviews	1 day						
698	1.5.3.2.2	Coordinate schedules	1 day						
699	1.5.3.2.3	Coordinate meetings	1 day						
700	1.5.3.2.4	Overview operations	1 day						
701	1.5.3.2.5	View weekly report by students	1 day						
702	**1.5.3.3**	**Maintenance team**	**1 day**						
703	1.5.3.3.1	Check every bus monitor	1 day						
704	1.5.3.3.2	Check every bus weigh scale	1 day						
705	1.5.3.3.3	Check command center is working properly	1 day						
706	1.5.3.3.4	Check gps systems are accurate and working	1 day						
707	1.5.3.3.5	Submit document of any issues	1 day						
708	**1.5.3.4**	**Enhancement team**	**1 day**						
709	1.5.3.4.1	Check for documents of any issues reported by maintenance team	1 day						
710	1.5.3.4.2	Weekly meeting to discuss issues noted from maintenance team	1 day						
711	1.5.3.4.3	Create strategy on how to approach issues noted from maintenance team	1 day						
712	1.5.3.4.4	Execute issues noted from maintenance team	1 day						

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				Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
713	1.5.3.4.5	Report and document any and all solutions to issues noted by maintenance team	1 day														
714	**1.5.3.5**	**Development team**	**1 day**														
715	1.5.3.5.1	Agree to program requirements	1 day														
716	1.5.3.5.2	Develop the software by the requirements	1 day														
717	1.5.3.5.3	Test the software by the requirements	1 day														
718	1.5.3.5.4	Delivery time is to be in a timely manner	1 day														
719	1.5.3.5.5	Guarentee that software is of their highest quality	1 day														
720	**1.5.4**	**Paperwork details**	**9 days**														
721	**1.5.4.1**	**Contact Information**	**4 days**														
722	1.5.4.1.1	Create a folder to hold contact information	4 days														
723	1.5.4.1.2	Record employee address	1 day														
724	1.5.4.1.3	Record employee phone number	1 day														
725	1.5.4.1.4	Record employee email address	1 day														
726	1.5.4.1.5	Document and organize contact information folder	1 day														
727	**1.5.4.2**	**Emergency contact**	**1 day**														
728	1.5.4.2.1	Provides emergency contact name	1 day														
729	1.5.4.2.2	Provides emergency contact phone number	1 day														
730	1.5.4.2.3	Provides emergency contact relation	1 day														
731	1.5.4.2.4	Provides second emergency contact	1 day														
732	1.5.4.2.5	Provides emergency contacts address	1 day														
733	**1.5.4.3**	**Agreement contract**	**5 days**														
734	1.5.4.3.1	Employee will read agreement contract	1 day														
735	1.5.4.3.2	Employee signs and agrees to agreement contract	2 days														
736	1.5.4.3.3	Agreement contract is documented and stored in a safe location	2 days														
737	1.5.4.3.4	Agreement contract is made into a digital copy	2 days														

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738	1.5.4.3.5	Digital agreement contract is saved safely on cloud in case computer is destroyed	1 day						▌								
739	**1.5.4.4**	**Development team agreement**	**3 days**						▐								
740	1.5.4.4.1	Contract team reviews agreement	1 day						▌								
741	1.5.4.4.2	Contract team agrees and signs agreement	2 days						▌								
742	1.5.4.4.3	Contract agreement is documented and stored in a safe location	1 day						▌								
743	1.5.4.4.4	Contract agreement is made into a digital copy	1 day						▌								
744	1.5.4.4.5	Contract agreement is saved safely on cloud in case computer is destroyed	1 day						▌								
745	**1.5.4.5**	**Medical Information**	**1 day**						▐								
746	1.5.4.5.1	All employees provide any health issues	1 day						▌								
747	1.5.4.5.2	All employees provide health history	1 day						▌								
748	1.5.4.5.3	All employees provide doctors name	1 day						▌								
749	1.5.4.5.4	All employees provide doctors phone number	1 day						▌								
750	1.5.4.5.5	All employees provide any health concerns	1 day						▌								
751	**1.5.5**	**Hiring Qualified Employees**	**5 days**						▭								
752	**1.5.5.1**	**Students/front desk employee**	**1 day**						▐								
753	1.5.5.1.1	Enrolled in College of Computer Informatics	1 day						▌								
754	1.5.5.1.2	GPA greater or equal to 3.0	1 day						▌								
755	1.5.5.1.3	Full time student	1 day						▌								
756	1.5.5.1.4	Must submit completed application	1 day						▌								
757	1.5.5.1.5	Must have teacher recommendation	1 day						▌								
758	**1.5.5.2**	**General manager**	**1 day**						▐								
759	1.5.5.2.1	Apply and hired by College of Computer Informatics department	1 day						▌								
760	1.5.5.2.2	5 years of managing experience	1 day						▌								
761	1.5.5.2.3	Must pass drug test	1 day						▌								
762	1.5.5.2.4	Must have computer science or similar techonology related background	1 day						▌								

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763	1.5.5.2.5	Must get dean of the departments approval	1 day						▌								
764	**1.5.5.3**	**Maintenance team**	**1 day**						▌								
765	1.5.5.3.1	Enrolled in College of Computer Informatics	1 day						▌								
766	1.5.5.3.2	GPA greater or equal to 3.0	1 day						▌								
767	1.5.5.3.3	Full time student	1 day						▌								
768	1.5.5.3.4	Must submit completed application	1 day						▌								
769	1.5.5.3.5	Must have teacher recommendation	1 day						▌								
770	**1.5.5.4**	**Enhancement team**	**1 day**						▌								
771	1.5.5.4.1	Enrolled in College of Computer Informatics	1 day						▌								
772	1.5.5.4.2	GPA greater or equal to 3.0	1 day						▌								
773	1.5.5.4.3	Full time student	1 day						▌								
774	1.5.5.4.4	Must submit completed application	1 day						▌								
775	1.5.5.4.5	Must have teacher recommendation	1 day						▌								
776	**1.5.5.5**	**Development team**	**1 day**						▌								
777	1.5.5.5.1	Third party contract	1 day						▌								
778	1.5.5.5.2	Referral reputation	1 day						▌								
779	1.5.5.5.3	Contract is inside the budget	1 day						▌								
780	1.5.5.5.4	Guarenteed quick delivery time	1 day						▌								
781	1.5.5.5.5	Guarenteed quality software	1 day						▌								