Speech Recognition System in Cars

TEAM 9	
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Activity List						
Project: Speech Recognition System in cars		Date: 04/10/16		Resource estimation(# of people)	Duration estimation(hours)	Dependency
Activity ID No	Activity Name	Description				
1.1.1	Candidates Evaluation and Comaparision	Evaluation candidates' skill and ability by using certain methods		8	3	FS with 1.1.2
1.1.2	Project Team Formation	After selection and rough analysis of project, choose proper teammembers		8	5	FS with 1.2.1
1.2.1	PM candidates self recommendation	those who want to be the pm should give a speech of self recommendation		8	1	FS with 1.2.2
1.2.2	Team Member Vote	Each memeber votes to select the PM		8	1	FS with 1.3.1
1.3.1	Determine constraints for the project	Determine the scope, time, and cost constraints for the project		8	10	FS with 1.3.2
1.3.2	Identify stakeholders	Identify stakeholders that are people involved in or affected by proj- ect activities and include the project sponsor, project team, support staff, customers, users, suppliers, and even opponents to the project.		8	10	FS with 1.3.3
1.3.3	Create project charter	Define project objectives, success criteria, approach, and roles and responsibilities		4	10	FS with 1.4.1
1.4.1	Dragon Software Evaluation	Analyze Dragon by certain criteria like cost, accuracy, environment setup, ease of use and external dependancy		1	10	FS with 1.4.2
1.4.2	IBM Watson Evaluation	Analyze IBM Watson by certain criteria like cost, accuracy, environment setup, ease of use and external dependancy		1	10	FS with 1.4.3
1.4.3	Simon Library Evaluation	Analyze Simon library by certain criteria like cost, accuracy, environment setup, ease of use and external dependancy		1	10	FS with 1.4.4
1.4.4	Pocket Sphinx Library Evaluation	Analyze Pocket Sphinx by certain criteria like cost, accuracy, environment setup, ease of use and external dependancy		1	10	FS with 2.1.1
2.1.1	Develop project scope statement	It will include, at a minimum, a product scope description, product user acceptance criteria, and detailed information on all project deliverables.		4	50	FS with 2.1.2
2.1.2	Project document updates	As more information becomes available and decisions are made related to project scope, such as specific products that will be purchased or changes that have been approved, the project team should update the project scope statement.		4	50	FS with 2.2.1
2.2.1	User requirements	Collect user requirement		2	25	FS with 2.2.2
2.2.2	Content requirements	Collect content requirement		2	12.5	FS with 2.2.3
2.2.3	System requirements	Collect system requirement		2	25	FS with 2.2.4
2.2.4	Non functional requirements	Collect non functional requirement		2	12.5	FS with 2.3.1
2.3.1	Plan risk management	Deciding how to approach and plan for risk management activities for a project,		1	5	FS with 2.3.2
2.3.2	Identify risk	Understand what potential events might hurt or enhance a particular project.		1	5	FS with 2.3.3
2.3.3	Perform qualitative risk analysis	Qualitative risk analysis involves assessing the likelihood and impact of identified risks, to determine their magnitude and priority.		1	10	FS with 2.3.4
2.3.4	Plan risk response	Develop a response to risks		1	5	FS with 2.4.1
2.4.1	Define activities	Develop a detailed list of activities, their attributes, and a milestone list.		1	2	FS with 2.4.2
2.4.2	Sequence activities	Sequence activities or determine their dependencies.		1	5	FS with 2.4.3
2.4.3	Estimate activity resources and durations	Estimate the quantity, type of resoures, and durations of each activity		1	8	FS with 2.4.4
2.4.4	Develop schedule	Use the results of all the preceding project time management processes to determine the start and end dates of the project.		1	5	FS with 2.4.5
2.4.5	Create WBS	A work breakdown structure (WBS) is a deliverable-oriented grouping of the work involved in a project that defines the total scope of the project.		1	5	FS with 2.4.6
2.4.6	Create WBS dictionary	A WBS dictionary is a document that describes detailed information about each WBS item.		1	7	FS with 3.1.1.1
3.1.1.1	Button layout design	Design where to place button		1	5	FS with 3.1.1.2
3.1.1.2	Text layout design	Design where to show the text recongized		1	5	FS with 3.1.1.3
3.1.1.3	commend layout design	Design where to show the commend		1	5	FS with 3.1.2.1
3.1.2.1	Design the interface between UI and the library	Design the interface between UI and the library		1	10	FS with 3.1.2.2

3.1.2.2	Design the interface between the analysis layer and the library	Design the interface between the analysis layer and the library		1	10	FS with 3.1.3.1
3.1.3.1	Semantic Analysis design	Design functions for analyze the result getting from the library		1	5	FS with 3.1.3.2
3.1.3.2	Respond generation design	Design several respond situations for different commend		1	5	FS with 3.2.1.1
3.2.1.1	Implement the UI framework	implement the UI framework using python		1	6	FS with 3.2.1.2
3.2.1.2	Implement the controls	Implement the button, text, textblock function and onclick functions for buttons		2	6	FS with 3.2.2.1
3.2.2.1	Implement the voice input function	Implement the voice input function using the library		1	5	FS with 3.2.2.2
3.2.2.2	Implement the voice recongnize function	Implement the voice recongnize function using the library		2	5	FS with 3.2.3.1
3.2.3.1	Implement the semantic analysis	Implement functions for analyze the result getting from the library		1	7	FS with 3.2.3.2
3.2.3.2	Implement the respond generation function	Implement the functions for showing the respond		1	7	FS with 3.3.1
3.3.1	Intergration test	Test the entire working software before deployment and write test document		4	10	FS with 3.3.2.1
3.3.2.1	System test for UI part	Test the UI working system and write test document		1	2	FS with 3.3.2.2
3.3.2.2	System test for voice recognition part	Test the feature for voice recognition and write test document		1	4	FS with 3.3.2.3
3.3.2.3	System test for respond generation	Test the respond situation for different voice input and write test document		1	4	FS with 3.3.3.1
3.3.3.1	Unit Test for UI functions	Test individual functions of UI and write test document		1	2.5	FS with 3.3.3.2
3.3.3.2	Unit Test for library interface	Test individual functions for calling library and write test document		1	2.5	FS with 3.3.3.3
3.3.3.3	Unit Test for semantic analysis	Test individual functions for semantic analysis and write test document		1	2.5	FS with 3.3.3.4
3.3.3.4	Unit Test for respond generation	Test individual functions for different responds and write test document		1	2.5	FS with 3.4.1
3.4.1	Deploying working software	bulid executable		1	4	FS with 3.4.2
3.4.2	User Manual (Tech Report)	technical report as a deliverable		2	4	FS with 4.1.1
4.1.1	Executing the risk management processes	Previously identified risks may be determined to have a greater probability of occurrence or a higher estimated loss value. Similarly, new risks will be identified as the project progresses.		2	2	FS with 4.1.2
4.1.2	Executing individual risk management plans	Monitor risks based on defined milestones and making decisions regarding risks and their response strategies.		2	2	FS with 4.2.1
4.2.1	Status report	Describe where the project stands at a specific point in time.		2	5	FS with 4.2.2
4.2.2	Progress report	Describe what the project team has accomplished during a certain period.		2	5	FS with 5.1
5.1	Project report	Write the project report and submit to the project sponsor		4	10	FS with 5.2
5.2	Consequent lessons learnt by the project	Think of the achievement through the process of the projects and prepare presentations for the whole project		8	2	