

# Speech Recognition System in Cars

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## **Time & Effort Estimation**

WBS by Product	Time (hours)	Effort (# of people)
<b>Project Management</b>	<b>80</b>	<b>8</b>
Project initiation and preperation of project charter	40	8
<b>Project planning and preperation of scope document</b>	<b>40</b>	<b>2</b>
Schedule planning	20	1
Meeting agendas and minutes of the meeting	20	1
<b>Technical Design</b>	<b>300</b>	<b>8</b>
Study, feasibility analysis and assesment of available softwares	80	8
<b>Software design</b>	<b>220</b>	<b>8</b>
<b>UI design</b>	<b>80</b>	<b>2</b>
Webpage layout	35	1
Process flow and functionality	45	1
<b>Voice recognition library inegration</b>	<b>80</b>	<b>3</b>
Environment Setup	20	2
Interface implementation	60	1
<b>Command analysis</b>	<b>60</b>	<b>3</b>
Semantic analysis	35	2
Response generation	20	1
<b>Testing</b>	<b>100</b>	<b>8</b>
Testing Checklist	50	4
Acceptance test document	50	4
<b>Roll Out</b>	<b>80</b>	<b>8</b>
User Training Manual	50	4
Presentation and demo of working software	30	4

WBS by Phase	Time (hours)	Effort (# of people)
<b>Initiation</b>	<b>80</b>	<b>8</b>
Preparation of project charter	40	4
Study and analysis of available software	40	4
<b>Planning</b>	<b>160</b>	<b>8</b>
Scope of the project	100	8
Defining requirements and acceptance criteria	25	2
User requirements	25	2
System requirements	25	2
Identifying risks, constraints, and assumptions	25	1
Project schedule	60	1
<b>Execution</b>	<b>240</b>	<b>8</b>
Design	60	8
UI design	20	3
Library integration	20	3
Command analysis and response generation	20	2
<b>Development</b>	<b>100</b>	<b>8</b>
UI implementation	30	3
Library implementation	40	3
Text analysis implementation and response generation	30	2
<b>Testing</b>	<b>40</b>	<b>8</b>
Integration Testing	20	4
System Testing	10	2
Unit Testing	10	2
<b>Roll Out and Support</b>	<b>40</b>	<b>8</b>
Working software	30	4
User manual	10	4
<b>Monitoring and Control</b>	<b>40</b>	<b>8</b>
Monitor and manage risks and issues	20	4
Facilitate change management	10	2
Monitor Performance	10	2
<b>Closing</b>	<b>40</b>	<b>8</b>