



ULAB
UNIVERSITY OF LIBERAL ARTS
BANGLADESH

Course Code: CSE-488

Course Title: Smart Phone Application Development

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Table of Contents for a SRS Document:

1. Introduction	
1.1 Purpose	<ul style="list-style-type: none">a. Accurate speech-to-text conversionb. Voice commands and receive responses in real time.c. Enable hands-free operationd. Efficiency and productivitye. Seamless communication
1.2 Intended Audience & Reading Suggestions	<ul style="list-style-type: none">a. Individuals with physical disabilities or motor impairmentsb. Multitaskers and busy professionalsc. Users with limited typing skillsd. Anyone seeking convenience and efficiency <ul style="list-style-type: none">a. Proper guidelines for voice appsb. Security and Privacy
1.3 Project Scope	<ul style="list-style-type: none">a. Speech Recognitionb. Real-time Processing Language Supportc. Platform Compatibility
1.4 References	https://ijarcce.com/wp-content/uploads/2023/03/IJARCCE.2023.12324A.pdf
2. Overall Description	
2.1 Product Perspective	<ul style="list-style-type: none">a. Seamless Speech-to-Text Conversionb. User-Friendly Interfacec. Continuous Improvement and Update
2.2 Product Features	<ul style="list-style-type: none">a. User's voice inputb. Speech Recognitionc. Generate Responsed. Personal Assistant Logic and Responses
2.3 User Classes And Characteristics	<ul style="list-style-type: none">a. Individuals with Disabilitiesb. Non-Native Speakersc. Busy Professionals and Multitaskersd. General Users Seeking Convenience <ul style="list-style-type: none">a. Accurate Speech Recognitionb. Real-time Transcriptionc. Language Supportd. Privacy and Data Security

2.4 Operating Environment	<ul style="list-style-type: none"> a. Mobile Devices b. Web Browsers c. Desktop and Laptop Computers d. Cloud Integration e. Voice Assistant Integration
2.5 Design and Implementation Constraints	<ul style="list-style-type: none"> a. User Interface b. Speech Recognition and Language Support c. Feedback and Confirmation d. Customization Options <ul style="list-style-type: none"> a. Network Connectivity b. Privacy and Data Security c. Platform and Device Compatibility
2.6 Assumptions and Dependencies	<ul style="list-style-type: none"> a. Internet Connectivity b. Microphone Access
3. System Features	
3. Functional Requirements	<ul style="list-style-type: none"> 1. Speech Recognition 2. Natural Language Processing (NLP) 3. Voice Commands 4. Multilingual Support (basically, based on Bangla) 5. Personalization 6. Context Awareness 7. Error Handling 8. Integration with Third-Party Services 9. Hands-free Operation 10. Continuous Improvement 11. Language Translation
4. Nonfunctional Requirements	
4.1 Performance Requirements	<ul style="list-style-type: none"> a. Adaptability b. Demonstrate high accuracy and efficiency
4.2 Safety Requirements	<ul style="list-style-type: none"> a. Data Privacy and Security b. Confidentiality c. Error Handling and Feedback d. User Consent and Control
4.3 Security Requirements	<ul style="list-style-type: none"> a. Data Encryption b. User Authentication c. Providing clear privacy policies d. Access Control

Use Case Diagram:

