

BACKLOG DOCUMENT

Task Name	Story	Sprint Ready	Priority	Status	Story Points	Assigned To	Sprint
Setup Project Repository	Initialize Git repository and setup project structure for collaboration.	Yes	High	Completed	3	All	Sprint 1
Define System Architecture	Design the high-level system architecture including speech recognition, NLP, and synthesis modules.	Yes	High	Completed	5	Berrin Uzun	Sprint 1
Select Speech Recognition Model	Research and select a suitable pre-trained speech recognition model for Turkish language.	Yes	High	In progress	8	Doğa Paksoy	Sprint 1
Develop Speech Recognition Module	Implement the speech recognition component for Turkish language, including integration with model.	Yes	High	Not Started	13	Doğa Paksoy	Sprint 2
Implement Natural Language Processing (NLP)	Develop tokenization, morphological analysis, and sentence parsing for Turkish language.	Yes	High	Not Started	13	Rana Çetinkaya	Sprint 2

Build Speech Synthesis Module	Implement the text-to-speech synthesis component, ensuring natural-sounding voice output in Turkish.	Yes	High	Not Started	13	Rana Çetinkaya	Sprint 2
Integrate Speech Recognition and NLP	Integrate the speech recognition module with the NLP module to process recognized speech.	Yes	Medium	Not Started	8	Berrin Uzun	Sprint 3
Integrate NLP and Speech Synthesis	Connect NLP output with speech synthesis module for text-to-speech generation.	Yes	Medium	Not Started	8	Berrin Uzun	Sprint 3
Integrate Sound Isolation	Implement sound isolation techniques to improve accuracy in speech recognition by filtering noise.	Yes	Medium	Not Started	8	Doğa Paksoy	Sprint 3
Test Speech Recognition Accuracy	Evaluate the performance of the speech recognition model using test data for accuracy.	Yes	High	Not Started	5	Doğa Paksoy	Sprint 3
Test Speech Synthesis Naturalness	Evaluate the quality of the synthesized speech, focusing on Turkish accent and intonation.	Yes	Medium	Not Started	5	Rana Çetinkaya	Sprint 3

Offline Fine-Tuning	Fine-tune the speech recognition model offline using domain-specific Turkish data for better accuracy.	Yes	High	Not Started	13	Doğa Paksoy	Sprint 4
Create User Interface for Demonstration	Build a simple UI for testing speech recognition and synthesis in real-time.	Yes	Low	Not Started	8	Berrin Uzun	Sprint 4
Optimize System Performance	Optimize processing speed and memory usage for real-time applications.	No	Medium	Not Started	8	Berrin Uzun	Sprint 4
Fix Bugs in Integration	Debug and resolve any issues in the integration between modules (Speech Recognition, NLP, Synthesis).	Yes	High	Not Started	5	Doğa Paksoy	Sprint 4
Generate Reports	Generate detailed reports on the system's performance, including speech recognition accuracy, synthesis quality, and system efficiency.	Yes	Medium	Not Started	5	Rana Çetinkaya	Sprint 5

Final System Testing and Debugging	Perform full-system testing and debugging, fix any remaining issues, and improve stability.	No	High	Not Started	8	All	Sprint 5
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