



Equibank

Project Prototype Part 3.2 by Team Berlopa

Project Description:

Equibank is a voice-controlled banking interface designed for visually impaired users. This prototype focuses on the core functionalities of checking balances, transferring funds, and paying the users bills. Thus, empowering the user to manage their finances independently through voice commands and text-to-speech feedback despite their impairment.

Requirements Summary:

- Accessible interface: Voice commands and audio feedback for all functionalities
- User-friendly navigation: Clear and concise voice prompts for menu options and actions
- Secure transactions: User verification and confirmation steps for financial operations
- Reliable performance: Accurate voice recognition and fast response times

Prototype Description:

In this prototype simulation of our mobile app, the user can:

- Activate the system with a voice command (e.g. "Start Equibank")
- Navigate app menu using voice commands (e.g. "Check balance," "Transfer money,")
- Receive audio instructions, feedback, and confirmations throughout the transaction process
- Verify user details and authorize transaction with voice commands

Data Presentation

Usability Specifications

During the online testing with the participants, Team BerLoPa noticed that the participants are interacting pretty well with the prototype. Most of the participants were able to accomplish each task assigned to them with barely any issues. Upon further observation, the participants learned how to navigate through the prototype; the AI assistance with the navigation helped them with any clarifications they would encounter.

Heuristic Evaluation

The summary of the data acquired from the deployed questionnaire begins with the system being able to clearly give feedback to the user through audio messages, the AI provides status updates in a conversational way that would make the user more comfortable. The system uses terms that would be normally used when making bank transactions, causing less confusion between the user and the system. AI integration allows the users to navigate through the system with message prompts, the AI works like an assistant and the system at the same time. In terms of design, despite the system being specifically designed for individuals with visual impairments, it still has a decent design that people without visual impairments would have no problem with.