Project Name:
Intelligent assistant

Project Sponsor:
Eng . Alhassan Mohamed

Project Team:
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Date:
October 3, 2025

Project Purpose and Justification:
The purpose of this project is to develop an innovative AI-based assistant designed for Windows and PC platforms. Unlike existing voice assistants such as Siri or Google Assistant—which are limited to mobile ecosystems—Intelligent Assistant aims to bring a powerful, lightweight, and privacy-focused AI companion to desktop environments

The project addresses the growing need for an intelligent productivity tool that runs efficiently on low-end systems, provides safe interactions through a built-in NSFW content filtering system, and enhances user experience with document summarization and real-time assistance. It supports digital transformation and accessibility by enabling users to interact naturally with their computers through voice or text.

Project Objectives:

Develop a functional prototype of an intelligent assistant that operates locally on Windows.

Achieve at least 90% accuracy in executing basic text and voice commands.

Provide a simple and user-friendly graphical interface.

Ensure an average response time of no more than 2 seconds per command.

Deliver the complete project by May 15, 2027

- Important feature : hide sensitive content

Scope Description:

- In Scope:

1. Development of an AI-based intelligent assistant capable of executing user commands.
2. Support for both text and voice commands (e.g., “open browser,” “play music”).
3. Design of a simple and intuitive user interface for interaction.
4. Implementation of Natural Language Processing (NLP) techniques to understand and process commands.
5. Performance testing and validation on Windows operating system only.
6. Out of Scope:
7. Integration with smart devices such as Siri or Google Assistant.
8. Support for operating systems other than Windows (e.g., macOS, Linux).
9. Use of cloud-based storage or online data processing.
10. Development of a mobile version of the assistant.

Deliverables:

- A fully functional version of the intelligent assistant for Windows.
- User manual and training documentation.
- Source code with detailed technical documentation.
- Performance and accuracy testing report.

Constraints:

- Must be delivered by April 15, 2027 (before the academic year)
- Budget limited to EGP 150,000
- No use of paid cloud services or external hosting.
- System must run completely offline on local hardware.
- Total project size should not exceed 1 GB.

Assumptions:

- Users have permission to execute system commands on their devices.
- Microphone and sound system are functioning properly.
- No major software or OS updates during the development period.

Exclusions:

• No automatic online updates or remote support.

• No inclusion of a full chatbot or conversational memory system.

Acceptance Criteria:

• Successful execution of basic text and voice commands with at least 90% accuracy.

• Average response time does not exceed 2 seconds per command.

• User interface runs without critical errors on Windows OS.

• All acceptance tests (UAT) are passed successfully.

Stakeholders:

- Sponsor: Eng. Alhassan Mohamed
  Project team :

Approval:

- Project Sponsor: _____ Date: _____
- Project Manager: _____ Date: _____
