

# BUG FIXING AND REFLECTION

## HANDOVER 4

### GROUP N

#### Overview:

The Bug fixing and reflection of the chatbot-German-university-application are described in this handover report, along with its goal, features, and contact details. This report aims to explain how the exempted bugs are passed.

Application Name: chatbot-German-university-application

Date: 01-07-2024

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#### Introduction:

Chatbots, or conversational agents, interact with users through natural language and are also known as dialogue systems, virtual assistants, or personal assistants. The term "chatbot" was coined by Michael Mauldin in 1997. These bots range from simple rule-based systems to advanced AI-driven models that learn from user interactions. They are widely used in customer service, healthcare, education, and personal assistance due to their cost-effectiveness and efficiency. This project aims to develop a web application that simplifies the university application process, allowing users to shortlist preferred universities effortlessly. The chatbot-based system will be user-friendly, requiring no installations, and supports the UN's goal of providing quality education and equal opportunities for all.

#### Features:

All test cases succeeded except one, and an additional test case were added to enhance and improve the software.

testReadCSVData() failed due to an error because it is case sensitive. We thought that the quality of the software and the user experience would be better if the program processes the input correctly regardless of the input case.

New Test Method (testReadEmptyCSVFile) added:

**Purpose:**

To verify the CSVDataReader class's handling of empty CSV files (empty.csv).

**Functionality:**

Creates an instance of CSVDataReader with the path to empty.csv.

Calls readCSVData() to obtain a list of University objects.

Asserts that the returned list (universities) is not null and empty, ensuring correct behavior when reading from an empty CSV file.

**Feature Enhancements:**

**Before:** The program had to be restarted to ask a new question.

**After:** The program asks the user if they would like to continue searching for universities with different search criteria's in the same chat, thus the user need not restart the program again to put in a new search.

## Contact details:

For any inquiries or assistance regarding the chatbot-German-university-application, please contact:

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