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Software Development 2

BSCH-SD2

Chatbot Project

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# Versioning Approach

# Development Process

# UI Implementation

# Rest API

## Rest API Implementation

# Weather API

# External Packages

**Gson**

The Gson library is a tool from Google used to convert Java objects to JSON representation and vice versa. The goals of this library are to allow customized representation, support complex objects, and generate compact output. According to the official documentation, its performance and scalability provide results more than sufficient for the expectations of this project. The components used are: .JsonArray; .JsonObject; .JsonParser. Their purpose is to interact with objects and arrays and parse strings.

**OpenNLP**

The OpenNLP library is a tool from Apache used to process natural language text, based on machine learning. The components used are: .DictionaryLemmatizer; .POSModel; .POSTaggerME; .SentenceDetectorME; .SentenceModel; .TokenizerME; .TokenizerModel. Their purpose is to identify sentences, split text, determine grammatical tags for tokens, and convert words.

**PDFBox**

The PDFBox library is an open source tool from Apache used to create, manipulate, and extract information from PDF documents. The components used are: .PDDocument; .PDPage; .PDPageContentStream; .PDRectangle; .font.PDType1Font; .font.Standard14Fonts. Their purpose is to manage, structure, write, create PDFs, and deal with fonts.

# Project Setup

# Milestone 1

## Goals

For the first milestone, the goals involved researching different models and exploring what was available related to the desired target. The next step was to discuss the audience, determine which tools to implement, and identify the possible devices and platforms to work with. After that, we created a persona and developed a visual identity, including a logo and some possible wireframes. The final step was coding a prototype using APIs and packages that could make the project feasible while documenting, researching, and saving all necessary information throughout the process.

## Junit Tests

## Commit Logs

## Full Log Details

# Milestone 2

## Goals

## Junit Tests Integration

## Commit List & Branches Tree

## Full Log Details

# Milestone 3

## Goals

## Junit Tests Integration

## Commit List & Branches Tree

## Full Log Details

# Appendix

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