

Book Bot Project

Group 7

October 26, 2017

Abstract

This file is a project report about Group 7's Book Bot Project for CmpE451 class. Information in this file is up to Milestone 1.

1 Project Description

Book Bot Project is an assistant that can help users with everything related to books. It is a bot, and it works via Telegram. Working via Telegram makes the bot more accessible; users don't need to install anything extra and it is cross platform.

The base and most important functionality is to communicate with natural language. The bot can carry on a conversation with daily English.

Users can ask the bot about books. They can search books with different keywords, genres or authors, they can filter them in any way they want and they can sort them. They also can get information about specific books, see its current popularity via ratings or read the comments about the book.

Users can also give the bot feedback about the books they have read. They can comment on a book or rate a book. This will help the bot learn more about what the user likes and help it work more user oriented

The bot can also recommend the user some books depending on their previous ratings and taste of books.

1.1 Project Requirements

We have defined our project requirements as follows and our customer has agreed and approved the requirements. Note that the following is a summary of the detailed requirements page. You can see the full list from project requirements in our wiki page.

1. Functional Requirements

(a) System Requirements

- i. Telegram will be the medium for the bot.
- ii. Goodreads or Google Books will be our source of book related information.
- iii. Wit.ai will be used for NLP purposes to understand natural language.
- iv. There will be regular users, admins and moderators.
- v. There will be a conversation tree which is going to be used to determine the conversation direction.

(b) User Requirements

- i. We will have regular users as Telegram Users.
 - A. Users will be able to get information; search for books, filter them, sort them and read comments about them
 - B. Users will be able to give feedback about books; comment on them and rate them.
 - C. Users will be able to get book recommendations.
- ii. We will have admin users.
 - A. Admins will be able to modify the conversation tree

Row Name	Row Name
Column Name	column value
Column Name	column value

Table 1: An project plan table.

- B. Admins will be able to see and flag comments
- C. Admins will be able to see and block users
- iii. We will have moderator users.
 - A. Moderators will be able to see and flag comments
 - B. Moderators will be able to see and block users

2. Non Functional Requirements

- (a) Speed: We are creating a bot which users can chat with so the response time cannot be more than 5 seconds.
- (b) Size: We want our bot to be portable an not bulky, we will use the Telegram as our medium hence the user won't need extra space for the bot.
- (c) Usage: It should be easy to use, there shouldn't be any training time.
- (d) Requirements: Bot needs internet connection to work.
- (e) Failures: If bot fails, it shouldn't take more than ten minutes to restart the system and get it working again.
- (f) Target devices: We are targeting all platforms in which Telegram works.
- (g) User Satisfaction: Bot should keep track of the success of its recommendations by tracking the ratings of the recommended books.

1.2 Project Design

TODO: write project design.

1.3 Project plan

TODO: write project plan. It is going to be in tabular form. See Table 1

2 Project Milestones

2.1 Milestone 1

TODO: Milestone 1

2.2 Milestone 2

TODO: Milestone 2

2.3 Final Milestone

TODO: Final Milestone

3 Project status

3.1 Deliverable List

- 1. One
 - (a) One point one: Explanation
 - (b) One point to: What is this deliverable
- 2. Two.

Row Name	Row Name
Column Name	column value
Column Name	column value

Table 2: An deliverable status table.

Name	Coding Work
Add your name	add your contribution
Add your name	add your contribution

Table 3: Coding work table.

3.2 Deliverable Status

TODO: write deliverable status. It is going to be in tabular form. See Table 2

3.3 Deliverable Evaluation

TODO: Evaluate

4 Coding Work

TODO: Will be in tabular form. See Table 3

5 Evaluation of tools and managing the project

5.1 Django

5.2 Mptt

5.3 Telegram

5.4 Wit

5.5 AWS

6 Summary

TODO fill