PLAGIARISM SCAN REPORT

Words	1245	Date	October 20,2020
Characters	9550	Exclude URL	

0%	100%	0	48
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selected UDP Project because not able get in contact any industrial identity which
had similar problem statement as developed. together as team came up given problem
statement aim develop project resolve problem.
used rasa framework for reverse engineering. gained knowledge about working chatbot, its
processing algorithm, result generation.
aim develop chatbot which can be used answer queries students well as faculties related
particular engineering college. goal solve problem time-consuming browsing college websites
as well as physical contact required get queries answered. chatbot computer program that can
converse user in natural language solve their queries.
develop an efficient effective chatbot solve queries students faculties related particular
academic institution.
Time consuming browsing websites for information.
In olden days' students had visit college enquire about details other information about college,
which time-consuming process as well as lengthy procedure for both parents as well as students. Nowadays
there are many changes occurred in Education system help advanced technological improvements.
Everything happening over internet without any difficulty.
In those days for submitting small application al, visit that place, but as days are passing away
's completely changing. Collecting applications manually will be hectic procedure al needs
manpower. For reducing that manpower such difficulties many devices or systems emerged day by day.
Due lack information, many students faced problems in paying fees thus deadlines get passes
they pay penalty fees. same problem occurred in filling scholarship form.
This system fails provide quick guidance. go college for collecting information regarding
any problems.
Components Chatbot Application:
main components Chatbot are:
UI: user interface simple not many colors. kept as simple as possible make look like
college chatbot. consists text box at bottom where user may write queries. "send"
button placed send query bot. UI be created using HTML, CSS, JavaScript.
Back-end: There are three phases:
Parsing Substitution: Whenever user types query, passed on class that parses
input substitutes words phrases other words phrases that grammatically

correct statement can be generated. carried out using XML Python. [1]
Natural Language Processing: NLP required that data which parsed can be "understood"
by application. E.g. user's humor, feelings, names, places mentioned in input. NLP
not implemented in project but can be implemented if needed in future. [1]

Database: There are various database files in database folder .□□□□ extension. These are files that contain various patterns conversations. [1]
NLP:
part artificial intelligence that deals human languages. has following structure:
Application
NLP Layer
Knowledge Base
Data Storage
NLP divided into two very important components:
Natural Language Understanding: mostly used map inputs useful representations. al helpful in analyzing different aspects language.
Natural Language Generation: generally used text planning, sentence planning, text realization. NLP implemented using library in Python named NLTK.
There are me steps followed in NLP:
Tokenization: process break complex sentence into words. Al, importance each word understood concerning sentence. al helps produce structural description an input sentence.
Stemming: process in which words are normalized into its base form or root form.
Lemmatization: process in which grouping different inflected forms word done. al roots several words into one common root but output Lemmatization proper word.
Stop Words: These are me words which are helpful make sentence meaningful but do not help in NLP.
Parts Speech: an inbuilt library containing various parts speech.

Students, faculty, parents can use this chatbot get quick response guidance regarding placements, academic details, latest updates, al department's information.
objects required for use chatbot are mobile/PC/laptop, internet.
People: Managing staff, students, faculty, staff members, parents.
chatbot can guide college members, hostel members, departments, library members.
other tools which can be used for making chatbot are rasa, Alexa, dialog flow, AI voice bot.
Users are: faculty, managing staff, parents, students
Students can get information about paying fees scholarship information in no time. problems faced by students paying penalty fees can be solved by using this chatbot as gives quick response.

components required are mobile, laptop, internet.
product gives us quick response, al easily accessible all users.
Customer Revalidation: User-friendly product.
purpose give correct information, quick easy response.

-1: Gather information about how chatbot works.
-2: Divide working architecture chatbot into different components.
-3: Design graphical framework get an idea about position components in process.
-4: three main components chatbot are NLP, Processing, Database.
-5: Create prototype through framework understand working chatbot.
-6: Gather information about NLP improve its efficiency for chatbot.
-7: Gather information about Databases less overhead in process.
-8: Create an efficient program process NLP output search Database.

-9: Combine all components.
-10: Train chatbot improve its efficiency.
-11: Deploy chatbot.
Note: 1-4 are be completed in Semester 7, 5-7 are be partially completed in Semester 7 be fully completed in Semester 8, 8-10 are be completed in Semester 8.

Project Plan same as steps mentioned above.

User's text input will be input chatbot NLP will be performed on text based on semantic, query will be divided into three subdivisions.
Personal Query Response System,
AIML Response System,
Query Analysis Response System.
Based on subdivisions, answers will be separately stored becomes easy search database, final response will be generated by chatbot based on its understanding query.

Automation has always been in demand in market. aim develop product that can solve common user queries waiting time for unique queries decreases. AI, due COVID-19, demand for such products has increased as people now prefer less physical contact.

strategy currently develop product that focused on solving queries particular institution.
, aim expand product any customization required for different clients.

service deploy chatbot where client requires maintain product, updating database maintenance check.

client an institution or company that requires its employees or clients access their sites frequently for information.

product will help clients as well as employees any institution or company get their queries answered more efficiently than ever.
Currently, are preparing product for an educational institution aim expand product's limit every field possible.
al aim improve efficiency product through timeline simultaneously.

Sources	Similarity