(Annexure-I)

**A Project Proposal and Synopsis**

On

COLLEGE ENQUIRY CHAT BOT

Submitted in partial fulfillment of the requirements for the

award of the degree of

**BACHELOR’S OF COMPUTER APPLICATIONS**

**Session:2019-2022**

**By:**

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**Supervised By:**

**NIDHIKA CHAUHAN: E5384**

DESIGNATION: ASSISTANT PROFESSOR



**University Institute of Computing**

**CHANDIGARH UNIVERSITY, GHARUAN, MOHALI, PUNJAB,140413**

**Project Coordinator: Head-UIC:**

**Dr. MANISHA MALHOTRA**

**Project Proposal**

**Submitted By: -**

**Name: Ritika Rana UID: 19BCA1126**

**Section: 19BCA5-1 (Group A) Date: 27th Aug 2021**

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| **Project Title:** |
| **COLLEGE ENQUIRY CHAT BOT** |
| **Project Team:** |

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| --- | --- | --- | --- |
| **Team Members** | **Name** | **UID** | **Section** |
| Member 1 | Prabhat | 19BCA1172 | 19BCA5-I |
| Member 2 | Atharv Singh | 19BCA1132 | 19BCA5-I |

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| **Project Objective:** |
| Objective is to facilitate the student and the upcoming generation knowing about the best college or the university without going through many different website getting everything on one platform |

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| **Project Number (If selected from project Basket)** | No. 6 |

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| **Project Outcome (Tick the correct)** | Patent |  | Journal Paper |  | S/W Project | yes | H/W +S/W Project |  | Other |  |

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| **Remarks of Supervisor:** |
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| **Name of the Supervisor (with E Code)** | **Asst. Prof. Nidhika Chauhan**  **E5384** |

**INTRODUCTION TO PROJECT**

**The college enquiry chatbot project is developed exploitation algorithms that analyze user queries and perceive user message. This technique may be a internet application that gives answers to the student's question. Students would like solely question through the bot want to chat.**

**The sample application is developed using Python Kernel and XML’s Artificial Intelligence**

**Markup Language(AIML) along with a database file which stores the name, e-mail, and password**

**to tell the GPA of a student. It is accessed using MYSQL. The front end of the project is designed**

**using HTML, CSS and Javascript.**

**Project features for identification of uniqueness**

* Uniqueness is the chat bot will have a website which will work like an encyclopaedia of the colleges and university information i.e. College Wikipedia.
* Looking onto the technological point of view, a Chabot only represents the natural evolution of a Question Answering system leveraging Natural Language Processing (NLP). Formulating responses to questions in natural language is one of the most typical Examples of Natural Language Processing applied in various enterprises’ end-use applications.
* How a Chat bot Works: As you can see in this graphic, a Chabot returns a response based on input from a user. This process may look simple; in practice, things are quite complex.
* In chat bot we have tried to include as much as random questions asked by students as many as we can in the chat bot to clear queries in no time . Chat bot is easy to use and understand.
* This project is built keeping in mind the importance of time in students life . Info provided in this website is accurate . Without wasting much time searching and scrolling website our website will provide all the information related colleges- includes reviews , college images and much more !

**FRONT END AND BACK END USED**

**JavaScript**

**JavaScript** often abbreviated as **JS**, is a [programming language](https://en.wikipedia.org/wiki/Programming_language) that conforms to the [ECMAScript](https://en.wikipedia.org/wiki/ECMAScript) specification. JavaScript is [high-level](https://en.wikipedia.org/wiki/High-level_programming_language), often [just-in-time compiled](https://en.wikipedia.org/wiki/Just-in-time_compilation), and [multi-paradigm](https://en.wikipedia.org/wiki/Programming_paradigm). It has [curly-bracket syntax](https://en.wikipedia.org/wiki/List_of_programming_languages_by_type#Curly-bracket_languages), [dynamic typing](https://en.wikipedia.org/wiki/Dynamic_typing), [prototype-based](https://en.wikipedia.org/wiki/Prototype-based_programming) [object-orientation](https://en.wikipedia.org/wiki/Object-oriented_programming), and [first-class functions](https://en.wikipedia.org/wiki/First-class_function).

**HTML**

The **HyperText Markup Language**, or **HTML** is the standard [markup language](https://en.wikipedia.org/wiki/Markup_language) for documents designed to be displayed in a [web browser](https://en.wikipedia.org/wiki/Web_browser). It can be assisted by technologies such as [Cascading Style Sheets](https://en.wikipedia.org/wiki/Cascading_Style_Sheets) (CSS) and [scripting languages](https://en.wikipedia.org/wiki/Scripting_language) such as [JavaScript](https://en.wikipedia.org/wiki/JavaScript).

**CSS**

**Cascading Style Sheets** (**CSS**) is a [style sheet language](https://en.wikipedia.org/wiki/Style_sheet_language) used for describing the [presentation](https://en.wikipedia.org/wiki/Presentation_semantics) of a document written in a [markup language](https://en.wikipedia.org/wiki/Markup_language) such as [HTML](https://en.wikipedia.org/wiki/HTML). CSS is a cornerstone technology of the [World Wide Web](https://en.wikipedia.org/wiki/World_Wide_Web), alongside HTML and [JavaScript](https://en.wikipedia.org/wiki/JavaScript).

**Java**

**Java** is a [high-level](https://en.wikipedia.org/wiki/High-level_programming_language), [class-based](https://en.wikipedia.org/wiki/Class-based_programming), [object-oriented](https://en.wikipedia.org/wiki/Object-oriented_programming) [programming language](https://en.wikipedia.org/wiki/Programming_language) that is designed to have as few implementation [dependencies](https://en.wikipedia.org/wiki/Dependency_(computer_science)) as possible. It is a [general-purpose](https://en.wikipedia.org/wiki/General-purpose_language) programming language intended to let [application developers](https://en.wikipedia.org/wiki/Application_developer) *write once, run anywhere*  meaning that [compiled](https://en.wikipedia.org/wiki/Compiler) Java code can run on all platforms that support Java without the need for recompilation. Java applications are typically compiled to [bytecode](https://en.wikipedia.org/wiki/Java_bytecode) that can run on any [Java virtual machine](https://en.wikipedia.org/wiki/Java_virtual_machine) (JVM) regardless of the underlying [computer architecture](https://en.wikipedia.org/wiki/Computer_architecture).

**Python**

**Python** is an [interpreted](https://en.wikipedia.org/wiki/Interpreted_language) [high-level](https://en.wikipedia.org/wiki/High-level_programming_language) [general-purpose programming language](https://en.wikipedia.org/wiki/General-purpose_programming_language). Its design philosophy emphasizes [code readability](https://en.wikipedia.org/wiki/Code_readability) with its use of [significant indentation](https://en.wikipedia.org/wiki/Off-side_rule). Its [language constructs](https://en.wikipedia.org/wiki/Language_construct) as well as its [object-oriented](https://en.wikipedia.org/wiki/Object-oriented_programming) approach aim to help [programmers](https://en.wikipedia.org/wiki/Programmers) write clear, logical code for small and large-scale projects.

**Objectives of the project**

**Objective is to facilitate the student and the upcoming generation knowing about the best college or the university without going through many different website getting everything on one platform. Looking onto the today's framework and the confusion raised in the mind of students regarding the best colleges or universities for their respective courses this chatbot come website has been designed to overcome this problem or the confusion from the mind of the upcoming engineers, CA, and many more. Another important objective to develop the College Enquiry Chatbot is to avoid going through many website this will take the user directly to the right page or official website of the college or university.**

**Timeline of Project in days**

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| OBJECTIVE | Days Required (maximum) |
| Strategy | 7 days |
| Analysis and planing | 7 days |
| UI/UX design | 15 days |
| Information Architecture and Workflow | 7 days |
| Software development ( coding, designing ) | 40 days |
| Testing ( website and chat bot combined working ) | 7 days |
| Modifications (if needed) | 4 days |
| Deployment and Finalizing | 4 days |
| TOTAL DAYS | 91 days |

**Software/Hardware required:**

* Browser - Chrome, firefox, microsoft edge.
* Windows 7 and above. ( windows 10 preferred for better experience )
* Good internet connection.

Team Members information with Technical knowledge as per project:

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| **S.No.** | **Name of the Student** | **Technical Knowledge** | **Contact No.** | **UID** |
| 1. | Atharv Singh | Coding (HTML, CSS) | 7814847734 | 19BCA1132 |
| 2. | Prabhat kumar chaudhary | Coding (JAVA, PYTHON) | 9319337539 | 19BCA1172 |
| 3. | Ritika Rana | UI/UX | 8917413235 | 19BCA1126 |