A

PROJECT REPORT

ON

“EDUCATIONAL ENQUIRY CHAT BOT”

*Submitted in partial fulfilment of the requirements for the award of degree of*

BACHELOR OF TECHNOLOGY

In

COMPUTER SCIENCE AND ENGINEERING

By

P.KAPIL (14K91A05E7)

Under the Esteemed Guidance of

Mr. T.MADHU

Assistant Professor



**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

(APPROVED BY AICTE, AFFILIATED TO JNTUH, ACCREDITED BY NBA, (NAAC)

MEDBOWLI, MEERPET, SAROORNAGAR, HYDERABAD-500097.

April-2018

**CERTIFICATE**

This is to certify that the Project Report entitled **“EDUCATIONAL ENQUIRY CHAT BOT”,** that is being submitted for the partial fulfilment of **Bachelor of Technology** degree in **Computer Science and Engineering** and is a record of bonafide work carried out by his during IV Year-II Semester in the Academic year 2017-2018, as a part of B. Tech curriculum of JNTUH Hyderabad.

**P.KAPIL (14K91A05E7)**

**INTERNAL SUPERVISOR HEAD OF THE DEPARTMENT**

**Mr. T.MADHU Dr. A. SURESH RAO**

**Signature of External Examiner**

**DECLARATION**

I declare that this dissertation work entitled “**EDUCATIONAL ENQUIRY CHAT BOT**” is original and bonafide work of my own in the partial fulfilment of the requirements for the award of the Degree of **BACHELOR OF TECHNOLOGY** and submitted to the Department of **CSE, TKR COLLEGE OF ENGINEERING AND TECHNOLOGY, HYDERABAD.** I also declare that the report generated is genuine and has not been copied from any earlier reports.

**By**

**P.KAPIL (14K91A05E7)**

**ACKNOWLEDGEMENT**

There are many people who helped me directly or indirectly to complete major project successfully. I would like to take this opportunity to thank one and all.

First of all, I would like to express my deep gratitude towards my internal guide **Mr. T.MADHU**, Department of CSE for his support in the completion of the dissertation.

I wish to express my sincere thanks to **Dr. A.SURESH RAO, HOD, Department of CSE,** and also to our principal **Dr. D. V. RAVI SHANKAR** for providing the facilities to complete the dissertation.

I would like to thank all my faculty and friends for their help and constructive criticism during the project period. Finally, I am very much indebted to my parents for their moral support and encouragement to achieve my goals.

**By**

**P.KAPIL (14K91A05E7)**

**ABSTRACT**

A Student bot project is built using artificial algorithms that analyzes user’s queries and understand user’s message. This System is a web application which provides answer to the query of the student. Students just have to query through the bot which is used for chatting. Students can chat using any format there is no specific format the user has to follow. The System uses built in artificial intelligence to answer the query. The answers are appropriate what the user queries. The User can query any college related activities through the system. The user does not have to personally go to the college for enquiry. The System analyzes the question and than answers to the user. The system answers to the query as if it is answered by the person. With the help of artificial intelligence, the system answers the query asked by the students. The system replies using an effective Graphical user interface which implies that as if a real person is talking to the user. The user just has to register himself to the system and has to login to the system. After login user can access to the various helping pages. Various helping pages has the bot through which the user can chat by asking queries related to college activities. The system replies to the user with the help of effective graphical user interface. The user can query about the college related activities through online with the help of this web application. The user can query college related activities such as date and timing of annual day, sports day, and other cultural activities. This system helps the student to be updated about the college activities.

**CONTENTS**

**Chapter Name of the Content Page No**

1 INTRODUCTION 1

2 LITERATURE REVIEW 3

3 REPORT ON PRESENT INVESTIGATION 5

3.1.SYSTEM ANALYSIS 5

3.1.1. EXISTING SYSTEM 5

3.1.2. DISADVANTAGES OF EXISTING SYSTEM 5

3.1.3. PROPOSED SYSTEM 5

3.1.4. ADVANTAGES OF PROPOSED SYSTEM 6

3.1.5. FEASIBILITY STUDY 6

3.1.6. SYSTEM REQUIREMENTS 7

4 SYSTEM DESIGN

4.1. INTRODUCTION 8

4.2. SYSTEM ARCHITECTURE 9

4.3. DATA FLOW DIAGRAM 10

4.4. UML DIAGRAMS 11

4.4.1 REALTIONSHIPS IN UML 14

4.4.2. USE CASE DIAGRAM 20

4.4.3. SEQUENCE DIAGRAM 22 4.4.4. ACTIVITY DIAGRAM 23

4.4.5 CLASS DIAGRAM 26

4.5. INPUT AND OUTPUT DESIGN 28

5 IMPLEMENTATION

5.1. INTRODUCTION 31

5.2. MODULES 31

5.2.1. ADMIN MODULE 31

5.2.2. STUDENT MODULE 32

5.2.3. FACULTY MODULE 32

5.2.4. VISITOR MODULE 33

5.3. SAMPLE CODE 33

6 SYSTEM TESTING

6.1. INTRODUCTION 40

6.2. TYPES OF TESTS 40

7 RESULTS AND DISCUSSIONS 44

8 SUMMARY AND CONCLUSION 58

9 REFERENCES 59

**LIST OF FIGURES**

|  |  |  |
| --- | --- | --- |
| **Figure No.** | **Name** | **Page No.** |
| Fig 4.2 | System architecture | 9 |
| Fig 4.3 | Data flow diagram | 10 |
| Fig 4.4.2 | Use case diagram | 21 |
| Fig 4.4.3 | Sequence diagram | 22 |
| Fig 4.4.4 | Activity diagram | 25 |
| Fig 4.4.5 | Class diagram | 26 |
| Fig 7.1 | Home page | 44 |
| Fig 7.1.1 | Login page | 45 |
| Fig 7.2 | Admin page | 46 |
| Fig 7.2.1  Fig 7.2.2  Fig 7.2.3  Fig 7.2.4  Fig 7.2.5  Fig 7.3  Fig 7.3.1  Fig 7.3.2  Fig 7.3.3  Fig 7.4  Fig 7.4.1 | View enquiry of students and faculties  Add question  View feedbacks  View enquiry of visitors  Add students  Student home page  Update profile  View updated answers  Add feedback  Faculty home page  Add question page | 47  48  49  50  51  52  53  54  55  56  57 |  |