RoboRelief

Project-I Report

Submitted in partial fulfillment of requirements for the award of the degree of

Bachelor of Technology (B.Tech.)

in

Computer Science and Engineering

Under the Supervision of:

Er. Devashish Kumar

Assistant Professor

Submitted by:

Vivek Kumar (2316003)

Adarsh (2316015)

Abhishek Saini (2316041)

Department of Computer Science and Engineering

Ambala College of Engineering and Applied Research

(Affiliated to Kurukshetra University, Kurukshetra)

DEC-2019

CERTIFICATE

This is to certify that **Vivek Kumar (2316003), Adarsh (2316015)** and **Abhishek Saini (2316041)** studying in Ambala College of Engineering and Applied Research, Devsthali, (Batch: 2016-2020) has completed their project (major) entitled **"RoboRelief"** at Ambala College of Engineering and Applied Research, Devsthali under my supervision.

It is further certified that they had attended the required number of practical classes at Ambala College of Engineering and Applied Research, Devsthali for the completion of their minor project during 7th semester.

Mr. Manjit Singh **Er. Devashish Kumar**

HOD & Sr. Asst. Prof. **(Project Supervisor)**

DECLARATION OF STUDENT

We hereby declare that the work which is present in this minor project report entitled **"RoboRelief"** in the partial fulfillment for the award of the degree of Bachelor of Technology and submitted to the Department of Computer Science and Engineering of Ambala College of Engineering and Applied Research, Devsthali affiliated to Kurukshetra University, Kurukshetra is an authentic record of us, carried out during a period of **AUG 2019 to DEC 2019,** under the supervision of **Er. Devashish, Assistant Professor (CSE).**

The matter presented in this project report has not been submitted by us for the award of any other degree of this or any other institute/university.

Date: _____

Vivek Kumar (2316003)

Adarsh (2316015)

Abhishek Saini (2316041)

PREFACE

According to the WHO, one in four people globally suffer from mental distress at some point of their lives, and 50% of those depressed are not even identified. In India, the prevalence of mental disorder is nearly 10%, with suicide and self-harm being the leading cause of death for adolescents who are being exposed to increasing levels of stress and anxiety. RoboRelief, an AI enabled coach touch bases of this serious concern at hand by providing AI enabled coach and chat platform.

Chapter 1 Introduction: It provides the details regarding the introduction of the area to which project belongs like scope of the system, objectives and success criteria of the system, domain and about the users.

Chapter 2 Problem Identification: In problem statement, scope of the project, objective, in terms of requirements needed for the project**.**

Chapter 3 Detail Design: It includes various UML diagrams like Activity diagrams, Data-Flow Diagrams.

Chapter 4 Testing: This chapter includes the various ways to testing an Android app and a brief introduction about the various testing units. Thereafter, it also contains the test cases defined in the tables. The test for the android application and the model is checked unit wise and after integration too.

Chapter 5 Deployment: It clearly defines the steps required to make settings in the pc to run our project along with snapshots. In short, anybody can install and run our project without our support by just referencing this chapter.

Chapter 6 Future Scope: It contains the future scope of the project according to our team. Reading it one can get the view of the next version of the project.

References: It contains the references of the project from where we took help.

ACKNOWLEDGEMENT

Engineers in all disciplines must acquire knowledge of project making. Student, in particular, will find 'project making' as an integral part of their studies that will infuse the spirit of doing practical work in them.

The satisfaction that accompanies the successful completion of any task would be incomplete without the mention of the people who made it possible whose constant guidance crowned our efforts with success.

We sincerely express our deep gratitude to the management of our college for giving us liberty to choose and to work on the most relevant project i.e. **"Robot Relief"**. We are thankful to **Er. Manjit Singh** (HOD CSE)for ensuring that we have a smooth environment at the college and lab. At the very outset, we would like to offer our never ending thanks to our project supervisor **Er. Devashish Kumar** (Assistant Professor, CSE) who helped us with our project from the beginning until the end. His continuous surveillance over our work allowed us to work more efficiently.

Vivek Kumar (2316003)

Adarsh (2316015)

Abhishek Saini (2316041)

ABSTRACT

The rate of depression is growing at an alarming rate. A study found that people are more likely to open up to a talking computer than a human is. The aim of this project is to motivate a person going through a low phase of his life and to avoid ill effects of depression. We propose a chatbot that can enable positivity-boosting conversation with the user. The chatbot will personalize its replies as per user to keep the conversation engaging. The advantage of such a system is that instead of reaching a phase requiring a visit to a psychiatrist, an online free service will reach many people, will mediate ill effects of depression and contribute to the betterment of society.Most of the times it has been seen that people who are depressed or stressed do not go to check out a therapist or psychiatrist. The chief reason apart from money is that people do not want to expose themselves to another human being as being emotionally weak. Reliefo would use AI to detect what the person is saying and then give responses accordingly. Challenging the stigma around mental illness and getting everyone to open up and talk is a difficult challenge. For those who are reluctant to talk to a real person then perhaps talking to a machine might provide a step in the right direction.

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