**ANDROID WEATHER APPLICATION**

**A Project Report**

***Submitted by:***

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in partial fulfilment for the award of the degree

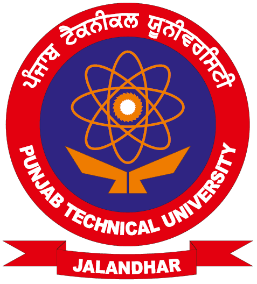
of

**BACHELOR OF TECHONOLOGY**

**IN**

**COMPUTER SCIENCE AND ENGINEERING**

at

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**SHAHEED BHAGAT SINGH STATE TECHNICAL CAMPUS**

**MOGA ROAD, NH 95, PUNJAB (INDIA) - 152004**

**(AFFILIATED TO I. K. GUJRAL PUNJAB TECHNICAL UNIVERSITY, JALANDHAR, PUNJAB )**

**(Formerly known as Punjab Technical University)**

**May, 2018**

**DECLARATION**

We hereby declare that the Major Project Report entitled **Weather Android Application** is an authentic record of our own work as requirements of Major Project during the period from Jan,2107 to May,2018 for the award of degree of B.Tech. (Computer Science & Engineering), Shaheed Bhagat Singh State Technical Campus, Ferozepur, affiliated to I.K. Punjab Technical University, Jalandhar, Punjab(India), under the guidance of Mr. Navtej Singh Ghumman.

**(Signature of student)**

**Abhinav Singh**

**Mayank**

**Masroor Ahmad**

**Chhotu Kumar**

**Place:**

**Date:**

It is to be certified that the above statement made by the student is correct to the best of our knowledge and belief.

#### Signatures

#### Internal Examiner:

#### 1. 2. 3. 4.

External Examiner: Signature

**CERTIFICATE**

This is to certify that the project titled **Android Weather Application** is the bonafide work carried out by Abhinav Singh(1421506), Mayank(1421551), Masroor Ahmad(1421552) and Chhotu Kumar(1421524) a student of B.Tech(CSE) of Shaheed Bhagat Singh State Technical Campus, Ferozepur, affiliated to I.K. Punjab Technical University, Jalandhar, Punjab(India) during the academic year 2018, in partial fulfilment of the requirements for the award of the degree of Bachelor of Technology(Computer Science and Engineering ) and that the project has not formed the basis for the award previously of any other degree, diploma, fellowship or any other similar title.

Signature **Mr. Navtej Singh Ghumman (Project Guide)**

**Place:**

**Date:**

**ACKNOWLEDGEMENTS**

We take this opportunity to express our profound gratitude and deep regards to our tutor Mr. Navtej Singh Ghumman and Ms. Khushjeet Kaur for their exemplary guidance, monitoring and constant encouragement throughout the course of this project. The blessing, help and guidance given by him time to time shall carry us a long way in the journey of life on which we are about to embark.

We am obliged to staff members of SBSSTC, for the valuable information provided by them in their respective fields. We are grateful for their cooperation during the period of our assignment.

Lastly, We thank almighty, our parents and our classmates for their constant encouragement without which this assignment would not have been possible.

**ABSTRACT**

Our aim for this six Major Project was to learn how to create an application in android, the Google operating system for mobile devices. The design of such an application is made in slightly modified Java.

The purpose of the final project was to build a cloud-connected Android app, and understand the tools, principles, and patterns that underlie all Android development. The aim of the project was to make the students understand the challenges associated with developing for the mobile environment (and how to overcome them), learn how to build a great user experience for Android devices, and apply this knowledge for building awesome Android applications in future.

The idea behind the “Sunshine” project was to simply create a cloud based weather android app with a user-friendly interface which will provide the user with the weather forecast of next 2 weeks for a particular city (based upon the city id entered by the user).

The “Sunshine” project was created using agile approach methodology using Android Studio i.e. this project was divided into small chapters (stages) like creating project Sunshine, connecting to the cloud, creating new activities and navigate app with intents, activity lifecycle and data, content providers , hooking it up with loaders, rich & responsive layouts and services & notifications.

This Major Project allowed us to increase our knowledge in Java, a language with which we had many difficulties. Also going through different stages of developing Sunshine helped us to earn a lot of information about the difficulties being faced by a programmer during android app development.

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