**VISVESVARAYA TECHNOLOGICAL UNIVERSITY**

## “Jnana Sangama”, Belagavi-590018



**2018-2019**

**A Mini Project Report On**

## “SOFTWARE QUALITY ASSURANCE*”*

#### SUBMITTED FOR THE REQUIREMENT OF THE VI SEMESTER FILE STRUCTURES

**LABORATORY WITH MINI PROJECT LAB (15ISL68)**

**BACHELOR OF ENGINEERING IN**

**INFORMATION SCIENCE & ENGINEERING**

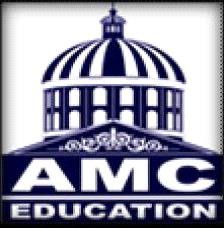
**Submitted By,**

**Sumukh V Bharadwaj (1AM16IS095)**

**Under The Guidance Of,**

**Mrs. Smitha J A (Assistant Professor, Dept. of ISE)**

**Mr. Bineet Kumar Jha(Associate Professor, Dept. of ISE)**

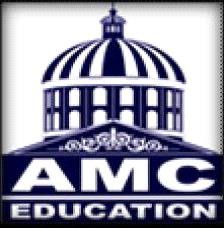


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**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

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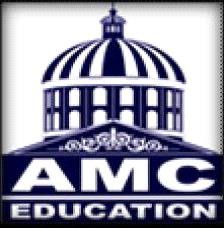
### CERTIFICATE

Certify that the Mini Project work entitled **“SOFTWARE QUALITY ASSURANCE**” carried out by **Sumukh V. Bharadwaj(1AM16IS095)** is a bonafide student of AMC Engineering College in partial fulfillment of the requirement of VI semester (File Structures Laboratory With Mini Project) Bachelor of Engineering in Information Science and Engineering Visvesvaraya Technological University, Belgaum during the year 2018 – 2019. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The Mini Project report has been approved as it satisfies the academic requirements in respect of Mini Project work prescribed for the said degree.

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| 1. |  |  |
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# DECLARATION

I, **Sumukh V. Bharadwaj (1AM16IS095),** student of VI semester of B E., Information Science and Engineering, AMC Engineering College hereby declare that the Mini project work entitled **“SOFTWARE QUALITY ASSURANCE**” has been carried out by me at AMC Engineering College, Bengaluru and submitted in partial fulfillment of the course requirements of **Bachelor of Engineering in Information Science and Engineering of Vishvesvaraya Technological University, Belagavi,** during the academic year 2018-2019. I also declare that, to the best of my knowledge and belief, the work reported here does not from part of any other dissertation on the basis of which a degree or a award was conferred on an earlier occasion on this by any other student.

Date:

Place: Bengaluru

#### SUMUKH V BHARADWAJ (1AM16IS095)

**ACKNOWLEDGEMENT**

It gives me immense pleasure to present before you, my project titled **‘SOFTWARE QUALITY ASSURANCE’.** The joy and satisfaction that accompany the successful completion of any task would be incomplete without the mention of those who made it possible. I am glad to express my gratitude towards our prestigious institution **AMC ENGINEERING COLLEGE** for providing me with utmost knowledge, encouragement and the maximum facilities in undertaking this project.

I wish to express sincere thanks to our respected chairman **Dr. K R Paramahamsa**

and beloved principal **Dr.A. G. Nataraj** for all their support.

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I sincerely acknowledge the guidance and constant encouragement of our mini- project guide, **Mr. Bineeth Kumar Jha, Associate Professor Dept. of Information Science Engineering and Mrs. Smitha J A, Assistant Professor Dept. of Information Science Engineering.**

# ABSTRACT

Software Quality Assurance (SQA) is a process performed to see if a program works as designed and intended and if it is easy to understand is use. The testing is performed by unbiased and neutral parties so as to provide diversity and impartial reviews.

As such usually the testers are called in to test the software and performed the required tests and submit their entries. This consumes much time and considerable effort, both in part of the testers and the developers.

The SQA software was designed with eliminating these hindrances to the SQA process. By making the questioning process standardized and digital we reduce paperwork and area for error. The developers can assign types of test that the testers have to execute with descriptions and the results ae recorded into the files. And the required analysis can be performed on collected data. The methods of login ensure that only admins may create test files and analyze data. The testing process will be quick and really simple as testers just have to login, fill and click next.

The software is designed to be simple, less memory consuming, GUI based and efficient, even after using one of the most sophisticated languages. The software was also developed in looking at the application side of the SQA process, thereby making it suitable for a variety of intra industrial usage

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