VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"Jnana Sangama" Belagavi – 590 010

PROJECT REPORT ON

"TOUCHSCREEN BASED ADVANCED MENU DISPLAY AND ORDERING SYSTEM FOR RESTAURANTS"

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

BACHELOR OF ENGINEERING
IN
ELECTRONICS & COMMUNICATION ENGINEERING

Submitted By

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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

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2018-2019

ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

CERTIFICATE

Certified that the project work entitled "**TOUCHSCREEN BASED ADVANCED MENU DISPLAY AND ORDERING SYSTEM FOR RESTAURANTS**" is a bona fide work carried out by
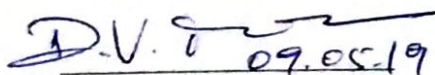
AMITKUMAR KONNUR	**4AL15EC007**
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in partial fulfillment for the award of BACHELOR OF ENGINEERING in **ELECTRONICS & COMMUNICATION ENGINEERING** of the **VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI** during the year 2018–2019. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the Bachelor of Engineering Degree.

D.V. ᵒ 09.05.19

Signature of the Guide   **Signature of the H.O.D**   **Signature of the Principal**

Mrs. Jyothi Pramal

Dr. D V Manjunatha
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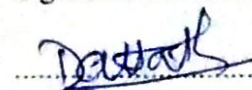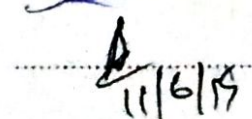**Alva's Institute of Engg. & Technology**
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11/6/19

ABSTRACT

The project mainly aims in designing completely automated menu in restaurants with the help of touchscreen and a graphical LCD to provide a user friendly environment. There is no need of a person to take the order from the table. The menu will be displayed automatically on the table and customer can directly order the menu with the help of touchscreen. Touchscreen provide fast access to any and all types of digital media, with no text-bound interface getting in the way. Faster input can mean better service. Using a touch interface can effectively increase operator accuracy, reduce training time, and improve overall operational efficiencies, a properly designed touch interface cam improves each operator's accuracy. Touchscreens are practical in automation, which has become even simpler with touchscreen technology. Owners familiar with the icon system appreciate screens that make automation systems user friendly.

The system consists of Wi-Fi module, which is interfaced with the input and output modules, the I2C converter acts as an intermediate medium between Wi-Fi module and LCD display. So the Wi-Fi module can be termed as a control unit. The input module is nothing but a touch screen which have graphical image display, which takes the input from the user. The output module is LCD display which makes the communication between system at table and system at manager department. The Wi-Fi module also takes the responsibility to display the menu items on the graphical LCD. At the receiving end the selected items will be displayed on LCD.