# Generating Usability Reports from User Inputs and Eye Movements

**PROJECT REPORT**

Submitted in the partial fulfilment of the award of the degree of

**Bachelor of Technology**

in

**Computer Science & Engineering**

of

**APJ Abdul Kalam Technological University**

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**November 2019**

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# COLLEGE OF ENGINEERING, CHENGANNUR
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**Department of Computer Engineering**

**CERTIFICATE**

This is to certify that the seminar entitled

**Generating Usability Reports from User Inputs and Eye Movements**

Submitted by

**Ganesh Sekhar**

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is a bonafide record of the work done by him.

**Co-ordinator** **Guide** **Head of the Department**

# ACKNOWLEDGEMENT

I am greatly indebted to **God Almighty** for being the guiding light throughout with his abundant grace and blessings that strengthened me to do this endeavour with confidence.

I express my heartfelt gratitude towards **Dr. Jacob Thomas V.**, Principal, College of Engineering Chengannur for extending all the facilities required for doing my seminar. I would also like to thank **Dr. Smitha Dharan**, Head, Department of Computer Engineering, for providing constant support and encouragement.

Now I extend my sincere thanks to my seminar co-ordinators **Mrs. Shiny B**, Assistant Professor in Computer Engineering for guiding me in my work and providing timely advices and valuable suggestions.

Last but not the least, I extend my heartfelt gratitude to my parents and friends for their support and assistance.

# ABSTRACT

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# 1 INTRODUCTION

# 2 PROBLEM FORMULATION

# 3 LITERATURE SURVEY

## 3.1 Eye-Tracking

- PACE
- TurkerGaze
- WebGazer

## 3.2 Usability Testing

# 4 RELATED WORKS

## 4.1 Tobii

Web-based Usability testing tool for quick and easy user testing of web-sites or digital products. Live viewing of where the user is looking and generates a timeline view of eye tracked.

## 4.2 Nielsen Norman Research Study

The Nielsen Norman Group is an American computer user interface and user experience consulting firm.

## 4.3 usertesting.com

# 5 PROPOSED SYSTEM

In this proposed system, a user can submit a URL of the website to be analyzed. The system then generates a unique URL for this experiment which can be manually shared to different users. Testers can access this URL and interact with the website normally while we collect the tester's eye coordinates that we obtained through webgazer.js. Basic demographic of the tester such as age and gender are also collected for categorization and report generation. The collected data is then stored in the server. The testing details can be reviewed from the admin's dashboard. Several features such as timeline, demographic filtering, heatmap, etc, are provided for easily analyzing the data.

# 6 SYSTEM DESIGN

# 7 CONCLUSION

# 8 REFERENCES