FINAL YEAR PROJECT REPORT

ANDROID INDOOR LOCATION APPLICATION USING BEACON FOR HOSPITAL

In fulfillment of the requirement
For degree of
BS (Information Technology)

By

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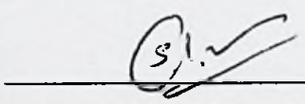
BAHRIA UNIVERSITY (KARACHI CAMPUS)

SPRING-2022

DECLARATION

We hereby declare that this project report is based on our original work except for citations and quotations which have been duly acknowledged. We also declare that it has not been previously and concurrently submitted for any other degree or award at Bahria University or other institutions.

Signature : 

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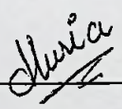
Signature : 

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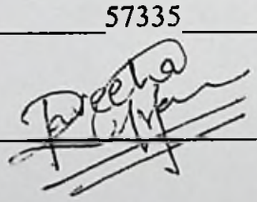
Signature : 

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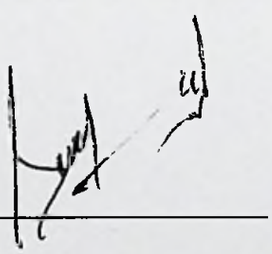
APPROVAL FOR SUBMISSION

We certify that this project report entitled **"ANDROID INDOOR LOCATION APPLICATION USING BEACON (FOR HOSPITAL)"** was prepared by **SYEDA AYESHA NUSRAT, MARIA BAIG** and **RAVEEHA MUHAMMAD IRFANULLAH** has met the required standard for submission in partial fulfilment of the requirements for the award of Bachelor of **Information Technology** at Bahria University.

Approved by,

Signature : 

Supervisor : Mr Muhammad Shahzad

Date : 14th June, 2022

Specially dedicated to

My beloved grandparents, mother, father and siblings

(Syeda Ayesha Nusrat)

My beloved grandparents, mother, father and brother

(Maria Baig)

My beloved parents for their constant support and team mates who have worked tirelessly to make this project a success

(Raveeha Muhammad Irfanullah)

ACKNOWLEDGEMENTS

We would like to thank everyone who had contributed to the successful completion of this project. We would like to express our gratitude to our research supervisor, Mr Muhammad Shahzad for his invaluable advice, guidance and his enormous patience throughout the development of the research.

In addition, we would also like to express our gratitude to our loving parents and friends who had helped and given us encouragement.

ANDROID INDOOR LOCATION APPLICATION USING BEACON (FOR HOSPITAL)

ABSTRACT

Management enterprise systems are rapidly making their way into businesses and organizations as the use of digital media increases. More and more functions are now being performed online rather than through physical interactions such as online payments, deliveries, bookings etc. As the world increasing moves towards digital solutions to automate manual, everyday tasks, the healthcare sector is still a laggard where scope to improve remains high. The objective of this project is to develop a holistic healthcare management solution that allows its users to leverage the digital space by allowing ease of online bookings, monitoring and tracking of medical records, convenience of medical database creation for each patient, downloading electronic reports and support in indoor hospital navigation. The report explores how the application will be developed, what modules it would consist of and how each module will interact. It describes how the hospital management, which is our super user, will be able to interact with profiles of doctors and patients. How patients can perform various functions using their own profiles and how doctors will be able to obtain results from patients. Lastly, this application will also have the feature of an indoor navigation system, which will operate through a hardware module called 'Beacon'. The report concludes with the results obtained after the implementation and what future functionalities can be inbuilt into the application as it moves to later phases or expands.

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