“OBSCURE LOCK”

A PROJECT REPORT

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In fulfillment for the award of the degree

Of

BACHELOR OF ENGINEERING

In

COMPUTER ENGINEERING

Sarvajanik College of Engineering and Technology,

Surat.

Gujarat Technological University, Ahmedabad.

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CERTIFICATE

This is to certify that the project entitled *Obscure Lock* has been carried out by DARSHIT AKBARI (160420107002), KEVAL NAVADIYA (160420107031), PARTH ROY (160420107046), DHRUVI SHAH (160420107050), SHREYA BOHRA (160420107054) students of B.E.IV (CO), Semester-VII, under my guidance in fulfillment of the degree of Bachelor of Engineering in Computer Engineering of Gujarat Technological University, Ahmedabad for the academic year Nov-2019.

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Before penning a single word for the project, we take this opportunity to thank all those who have helped us directly or indirectly in making our project live and turn it into a successful piece of work. Many people have contributed to this project in various ways. Words are not enough to describe their support and faith in us. But still we want to thank all of them.

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This was the first professional step towards the high profile career in Computer Engineering field. So, we are thankful to Computer Engineering Department for facilities that are provided to us for accessing the lab. It was a great experience of exposing as well as teaches a lot of new things in Computer Engineering. We are indebted to all those who provided reviews our task and we apologize to anyone if we may have failed to mention.

Last but not least, thanks to Sarvajanik College of Engineering Technology for providing us the platform to present the project preparing this report.

Yours faithfully,

- Darshit Akbari
- Keval Navadiya
- Parth Roy
- Dhruvi Shah
- Shreya Bohra

ABSTRACT

This system will provide with virtual lock mechanism that can be used in any locker/safe/block of the showroom which will be operated using a Mobile Application. The mobile application will use camera and will pop pattern dots or numeral while facing the objects. You have to draw/write the correct pattern/numeral to unlock the locker/safe/block which is under the surveillance of the "OBSCURE LOCK App."

The block will open instinctively once the password/pattern is correctly entered. This functionality is performed using an IOT sensor and analyze weight inside the block/safe.

Another sort of functionality that is provided by the system is a chain of blocks between the user. The authentication of each user is accomplished using a block chain notion.

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UNDERTAKING ABOUT ORIGINALITY OF WORK

We hereby certify that we are the sole authors of this UDP project report and that neither any part of this UDP project report nor the whole of the UDP Project report has been submitted for a degree by other student(s) to any other University or Institution.

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