



North South University

Department of Electrical & Computer Engineering

Project Report

CSE-499B.12

Spring 2021

***An Augmented Reality-Based Online
Store Application & Website (Decora)***

Submitted To: DR. ATIQUR RAHMAN

(Associate Professor & Undergraduate Coordinator(EEE/ETE))

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DECLARATION

We, hereby, declare that the work presented in this report is the outcome of our project after working on it for eight months under the supervision of DR. ATIQR RAHMAN, Associate Professor, Department of Electrical and Computer Engineering, North South University, Dhaka, Bangladesh. The work was spread throughout one of the final year courses, CSE499 A & CSE499 B, in accordance with the course curriculum of the Department for the Bachelor of Science in Computer Science and Engineering program.

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APPROVAL

The project report on The Augmented Reality-Based Online Store Application & Website (Decora) has been submitted by Fazhrul Islam Sadip (ID #1631641042), Golam Shaekh Al Azmee (ID #1712154042), Tanzim Uddin (ID # 1631718042) of the Department of Electrical and Computer Engineering, North South University, Bangladesh in partial fulfillment of the requirement for the degree of Bachelor of Science in Computer Science and Engineering in May 2021 and has been accepted as satisfactory.

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ACKNOWLEDGEMENT

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ABSTRACT

Since the inception of augmented reality (AR) in 1968, the primary objective has been to merge real-world aspects with virtual characteristics in order to provide people with a better viewpoint. Since then, it has gone a long way and is rapidly evolving into a useful and effective instrument for making life easier for people. With that in mind, the project's goal was to build a platform called Decora that will not only help users with browsing and purchasing interior decoration items online but also allow them to visualize every item in real-time using AR. This paper aims to show a comprehensive analysis and an in-depth look behind the procedure for developing an Augmented-Reality based application. It will outline the architecture of the project and list all the features that were created for every platform. The results and outcome of our work will be presented visually using images. Finally, we will try to suggest some potential improvements for the project which could help make the application more optimized and marketable as an actual product in the market.