

Awais Ahmed Khan
01-235142-015

# 3D Smart Design Android App 

# Bachelor of Science in Information Technology 

Supervisor: Mr. Usman Shafique

Department of Computer Science<br>Bahria University, Islamabad


#### Abstract

Nowadays, people spend most of their money on food and clothes. Women spend a lot of money on buying unstitched cloths and then according to their desires they demand a well-designed stitched dress. However, when women explain the design requirements to their tailors, they do not fully understand the design and there are a higher chances that the customer might get disappointed on the design of the dress. Through this project, customers can design their dresses according to their choice. Customers can view how design does the design of their dress look like on a 3D model and as well as take precise measurements. Customers can choose different styling options from the dataset, available on the application and then they are able to choose designs of clothing accessories like lace, frontal design of the shirt (Kameez), different designs of the trousers, etc. This project has an option for the customers to view their design(s) in a 3D model serving as a platform to design their clothes as per requirements. Customers can also zoom-in and zoom-out to see a more precise design of the dress.


## Contents

1 Introduction ..... 1
1.1 Introduction ..... 1
1.2 Problem Description ..... 1
1.3 Project objective ..... 2
1.4 Scope of project ..... 2
1.5 Business Context ..... 2
1.6 Proposed Solution ..... 3
2 Literature Review ..... 5
2.1 Existing Systems ..... 5
2.1.1 Fashion Design Flat Sketch ..... 5
2.1.2 Women Traditional Dresses ..... 7
2.2 Limitations or Drawbacks ..... 8
2.3 Problem Description ..... 8
3 Requirement Specifications ..... 9
3.1 Existing System ..... 9
3.1.1 Fashion Design Flat Sketch ..... 9
3.1.2 Women Traditional Dresses ..... 9
3.2 Proposed System ..... 10
3.3 Requirement Specification ..... 10
3.3.1 Functional Requirements ..... 10
3.4 Use Cases ..... 11
4 System Design ..... 17
4.1 System Architecture ..... 17
4.2 Sequence Diagrams ..... 18
4.3 Assumptions ..... 20
4.4 Constraints ..... 20
4.5 Low Fidelity Prototype ..... 20
4.6 3D Smart Design App Mock-up ..... 21
5 System Implementation ..... 23
5.1 System Architecture ..... 23
5.2 Development Environment/Languages Used ..... 25

