COLLEGE OF BUSINESS EDUCATION

DODOMA CAMPUS

DEPARTMENT OF INFORMATION COMMUNICATION TECHNOLOGY

No.	FULL NAME	REG. NUMBER	YEAR OF SYUDY
1	PROTASE SEVERINE	03.1429.02.02.2023	2ND YEAR

LECTURE NAME: **ATUPELE CAIRO MWAITETE.**

NATURE OF WORK: **INDIVIDUAL ASSIGNMENT**

COURSE TITLE: **PROGRAMMING IN JAVA**

PROGRAM: **BACHELOR IN INFORMATION TECHNOLOGY (BIT)**

PROJECT NAME: **FASHION FINDER FOR EVERY EVENT.**

QUESTION:

You are required to create a small Java application that addresses an everyday challenge faced by individuals or communities in Tanzania with a theme of "Digital Solutions for Everyday Challenges in Tanzania". Each student should select a specific challenge and provide a software-based solution.

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EXECUTIVE SUMMARY

Fashion Finder for Every Event is an innovative application designed to assist users in selecting the perfect attire for any event, based on their gender and the type of occasion they are attending. The application simplifies the process of outfit selection, providing personalized recommendations that include clothing color, material, type, accessories, shoes, and styling tips. The system's primary goal is to help individuals choose the right outfit for events such as weddings, parties, conferences, casual outings, and sports activities.

The Fashion Finder for Every Event app is developed using Java programming language and Java Swing for the graphical user interface (GUI). It operates by taking the user's input (gender and event type) and generating an appropriate outfit suggestion. The app also includes additional elements such as fashion styling tips and images of the recommended outfits to further guide the user in making their clothing decisions. The suggestions are designed to ensure users are dressed stylishly and appropriately for the occasion, providing confidence and convenience.

One of the unique aspects of the Fashion Finder for Every Event application is its simplicity and user-friendly interface. Users only need to select their gender and the event type from a drop-down menu, after which the system displays the recommended attire, complete with useful styling advice. This approach eliminates the need for users to spend time researching or overthinking their outfit choices, providing a quick and efficient solution to an everyday problem.

1 CHAPTER ONE

1.1 INTRODUCTION

Fashion plays a significant role in our everyday lives, shaping our identity, personality, and the way we are perceived by others. The clothes we wear are often chosen to reflect not only our personal taste but also the context of the event or occasion we are attending. From formal gatherings such as weddings and conferences to casual outings and sports activities, selecting the right outfit can be both time-consuming and challenging. With so many options available, individuals often find themselves overwhelmed with the decision-making process, leading to frustration and wasted time.

The Fashion Finder for Every Event application was created to address this common problem. This innovative software solution aims to simplify the process of outfit selection by providing personalized recommendations based on gender and event type. It takes the guesswork out of fashion decisions by suggesting appropriate attire, complete with styling tips and visual representation of the recommended outfits. The app is designed to cater to various events, including weddings, parties, conferences, casual outings, and sports, ensuring that users are always dressed appropriately and stylishly for every occasion.

The application is built using Java programming and utilizes the Java Swing framework to create a user-friendly graphical interface. Users interact with the app by selecting their gender and the event they are attending. Based on these inputs, the app generates a customized outfit suggestion that includes the color, material, clothing type, accessories, shoes, and styling tips. Additionally, users are provided with an image of the recommended outfit to aid in visualization, making it easier for them to imagine how the outfit will look in real life.

The Fashion Finder for Every Event app is designed with the user in mind, focusing on ease of use, speed, and accuracy. By automating the outfit selection process, the app saves users valuable time and effort, allowing them to focus on other important aspects of event preparation. It is especially beneficial for individuals who may not have a deep knowledge of fashion or those who simply need a quick, reliable solution for choosing the right outfit.

Furthermore, the app is scalable, allowing for future enhancements such as the addition of new event categories, personalized recommendations based on past preferences, and integration with fashion retailers for real-time purchase suggestions. This makes the app not only a valuable tool for individual use but also a potential business opportunity for collaborations with fashion brands and retailers.

1.2 PROBLEM STATEMENT

In the fast-paced world of today, individuals are constantly faced with the challenge of selecting the perfect outfit for various occasions. Fashion, being a critical aspect of personal identity, plays a pivotal role in how individuals are perceived in both personal and professional settings. However, despite the wide range of clothing options available, many people find it difficult to make timely and appropriate wardrobe choices, especially when considering the specific requirements of an event.

1.3 OBJECTIVES

1.3.1 MAIN OBJECTIVE

The Fashion Finder for Every Event project aims to develop a user-friendly application that assists individuals in selecting the perfect outfit for various events based on their gender. The application will provide personalized recommendations, including clothing color, material, type, accessories, shoes, and styling tips, along with visual aids to enhance user experience.

1.3.2 SPECIFIC OBJECTIVES

1. To design a user-friendly interface (UI) for the application.
2. To integrate a recommendation algorithm based on gender and event type.
3. To provide detailed and personalized styling tips for each outfit.
4. To incorporate high-quality images of recommended outfits.
5. To provide scalability for future event categories and fashion trends.

2 CHAPTER TWO

2.1 SYSTEM REQUIREMENTS

2.1.1 FUNCTIONAL REQUIREMENTS

- User Management
  - The system shall allow users to input their gender and event type to receive clothing recommendations
- Recommendation Engine
  - The system shall process the user's input (gender and event type) and retrieve matching recommendations.
- Content Management
  - The system shall allow the administrator to update, add or remove clothing items, event types, and styling tips.
- Compatibility
  - The system shall provide a responsive design for different screen sizes.

2.1.2 NON-FUNCTIONAL REQUIREMENTS

- Usability
  - The system shall have an intuitive and user-friendly interface that requires minimal learning for new users.
  - The system shall use clear labels and buttons for easy navigation.
- Performance
  - The system shall load clothing recommendations within few seconds after user input submitted.
  - The system shall support up to 10,000 concurrent users without performance degradation.
- Scalability
  - The system shall be able to scale as the number of users and data (clothing items, event types) grows over time.
- Reliability
  - The system shall be available 99.9% of the time with minimal downtime for maintenance.
- Security
  - The system shall ensure that user data is securely stored.

3 CHAPTER THREE

3.1 USER INTERFACE DESIGN

The Fashion Finder for Every Event application will have a simple and intuitive user interface designed to provide a seamless and engaging experience for the user. The UI is focused on ease of navigation, responsiveness, and clarity.

1. Splash Screen

   Initial screen displayed when the user launches the Fashion Finder for Every Event Application.

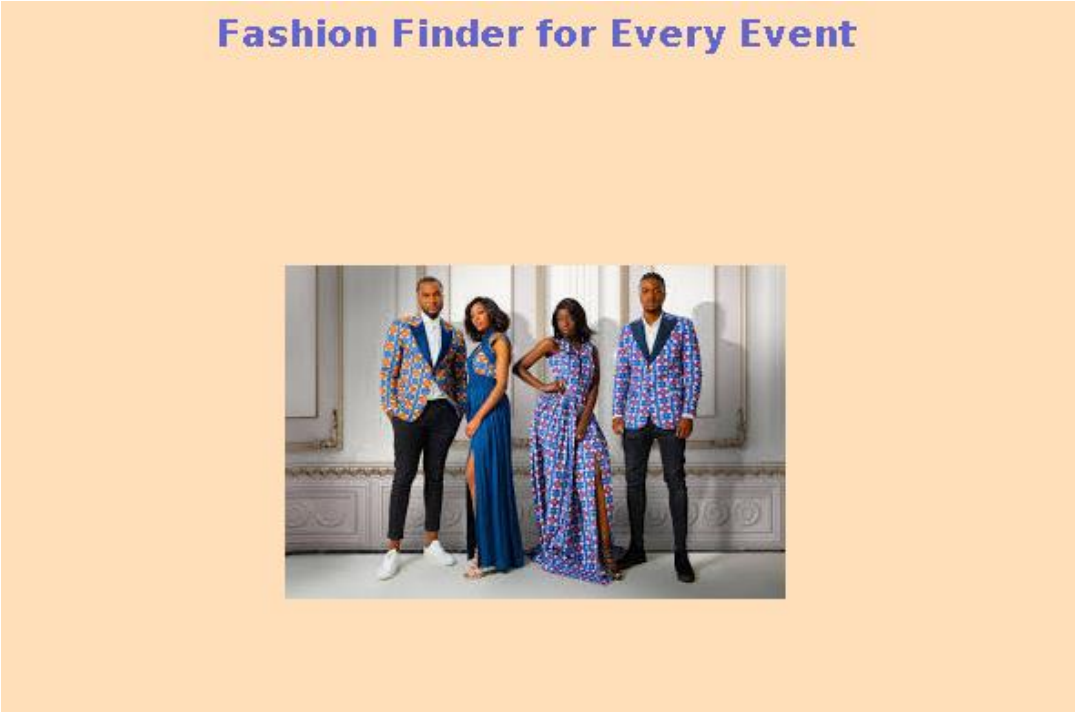

Figure 1: Splash Screen

2. Home Screen

- Gender Selection: Dropdown menus to select the user's gender (Male or Female).
- Event Type Selection: Dropdown menus to select the event the user is attending (e.g., Wedding, Party, Conference).
- Generate Outfit: Once the user selects gender and event type, they can tap a button to receive fashion recommendations.

Figure 2: Home Screen

3. Recommendation Screen

- Accessories and Shoes: Alongside clothing suggestions, the app will show recommended accessories and shoes.
- Styling Tips: A text area that provides styling tips relevant to the clothing items.
- Images: Display images of the recommended outfits to help users visualize the complete look.

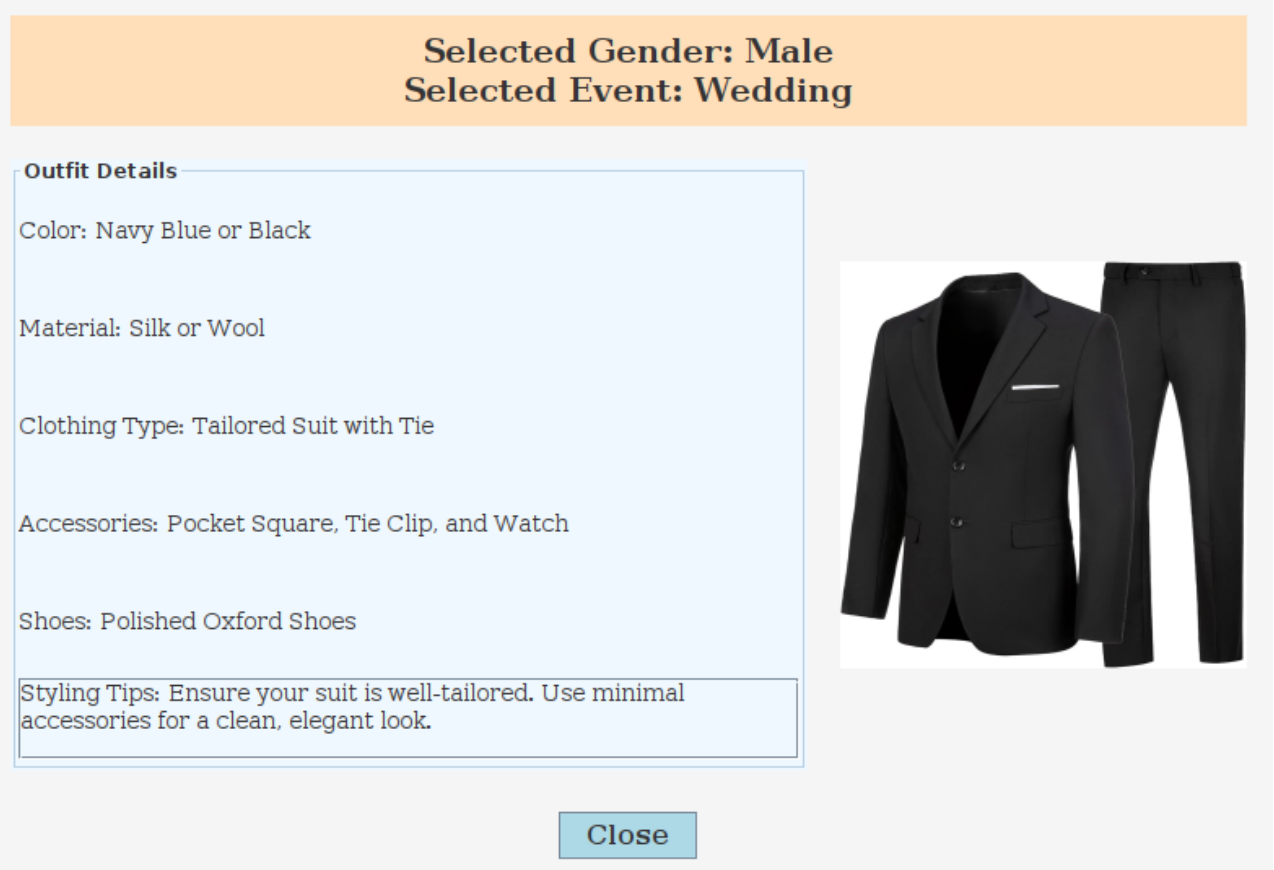

Figure 3: Outfit Recommendation Screen

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