

DEVELOPMENT OF HIJANIS STYLE APPLICATION USING 3-DIMENSIONAL (3D) MODEL

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Abstract: *Hijab Style is becoming more popular as more teenagers and content creators advocate new hijab styles every time, they make a video and upload it online. The traditional hijab style remains popular among Malaysian women; yet, with the advancement of modern technologies and the internet, hijab styles are becoming increasingly diverse. Many mobile applications on the Google Play store assist users in learning the style. However, the majority of them have certain limitations, such as simply exhibiting the model in a two-dimensional image, and some of the applications do offer elements that allow the user to learn the style directly. Furthermore, women take longer than males to get dressed for an outing, and they do not have time to properly pick and style their hijab. Furthermore, women who are new to hijab style will be unsure about what hijab is appropriate for them and how to wear it. It is critical to develop a new platform that helps the user while also being easier to use. This project's objective is to develop a Hijanis-style application utilizing web scraping and a 3-dimensional (3D) model. The viewer may see a 3-dimensional representation of the hijab style and face type (3D). To assist novice hijabsters in learning a new style, a YouTube video instruction will be provided, allowing the user to simply understand and follow the training. The Hijanis Style application will have a 3D model viewer, allowing users to interact with the 3D model and gain a better knowledge of the hijab style.*

Keywords: *3D model, hijab style, learning style, 3D apps, web scraping*

Introduction

People use the Internet in their daily life such as online business, buying a ticket, and many more. One of the industries that trying to embed the latest technology into them is the fashion industry. The fashion industry is one field that is greatly influenced by surrounding trends. They found that it is easiest to reach the target audience and also the easiest way in order to receive and purchase items because of the online marketplace. Fashion categories are divided into two categories which are men's fashion and women's fashion. This project was focused more on women's fashion. Apart from that, fashion is also divided into many types of styles like a modern urban, minimalist, hipster, and modest (Karakavak, Z., & Özbölük, T., 2021). The Muslim fashion style for women was classified as modest since women who wore this style showed little to no skin. Since Muslim fashion required the user to cover their aurat from head to toe, the hijab will be another part to be focused on modest style because it can be styled in many different styles.

The web scraping refers to the method that is used to collect data from the existing information. The data from this method can be collected from the internet (Khder, M., 2021). This method can help developers to collect data about the hijab style anywhere, especially from the internet since the image of the style is already available on the internet. The data will be used to make the hijab style in the three-dimensional model so that users can use it via the application.

Artificial Intelligent (AI) is also another adaptation technology in the fashion industry. AI helps the fashion industry in terms of design, production, shipping, marketing, and sales (Barrera T., 2021). Other than that, AI also needed to illustrate what the fashion or style looks like by using three-dimensional visuals. Three-dimensional visual will show the style at 360° front and back so that the user will be able to imagine their look before they actually wear them. A two-dimensional image that the user takes from the device's camera can be converted into a three-dimensional model using three-dimensional reconstruction. The Head reconstruction model is used to make the user's head in a three-dimensional model in order to combine together with the three-dimensional hijab style model.

Literature review

Today, people are always busy with their work and their daily routine, and because of that, they do not have time or sometimes do not have enough time to get ready when they want to go out, especially women. Roy (2020) found that woman spend around twenty-five to thirty minutes every morning to get ready in order to choose their outfits, taking a bath, do basic make up, and dress up. Because of this, women prefer to wear an instant hijab rather than a shawl or square scarf. This solution does not seem wrong since it is also one of the solutions for the problem but, the user cannot do many styles while wearing instant hijab it provides the user with two to three styles with a variety of colors and designs hijab. Therefore, if the user consistently wore the same hijab style, it would appear dull and unappealing.

Choosing the style in a short time is difficult because users also have to think about the hijab material that suitable for the style that user choose, easy and the comfortable that user feel when put on the hijab is an important element when it's come to fashion especially for women. Not all hijab material suitable for some user and also user's surrounding or environment. For instance, polyester fabric is unsuitable for users who live in hot, humid climates country because users might not feel comfortable wearing it. (Lissome C., 2018). Meanwhile, for fabric like jersey, it works extremely good for women who live in colder countries since this fabric will

let user keep warm and comfortable (Lissome C., 2018). So, choosing the best hijab material instead of choosing only the hijab style was quite difficult and can be stressful.

Mobile Application

The popularity of the mobile industry is exploding nowadays. It is very common to have at least one smartphone for every single person even kids under seven years old already have their own devices. A mobile application (also known as a mobile app) is a sort of mobile application that is specifically built to operate on mobile devices such as smartphones and tablets. Despite being a little software unit with limited functionality, it manages to provide consumers with high-quality services and experiences. Many people nowadays use mobile applications to interact with their friends and family, play games, and access the Internet. As a result, people may accomplish a great deal in their daily lives. People will utilize their cellphones in their daily lives in an indirect way due to its mobility and simplicity of usage (Edillo et al., 2018).

Fashion Apparel Industry

One of the largest economies is the fashion and apparel (F&A) sector, which contributes 26% to Europe, 22% to North America, and 38% to Asia Pacific (Lenzing, Statista, 2019 as cited in Giri et al., 2019). Fashion can be defined as the style or styles of clothing and accessories that a group of people wears at any given time (Steele, 2020). The term "fashion" can also refer to a particular trend in clothing, accessories, footwear, or cosmetics that has a large following at a certain time (Hidayati et al., 2014 as cited in Choi et al., 2021). People are inherently concerned of their appearance, and their clothing choices should reflect their own style preferences, social position, and the social occasion (Chen & He, 2018).

All sorts of apparel, including men's, women's, and children's fashion, are designed, manufactured, distributed, marketed, retailed, advertised, and promoted in the fashion business. All of this may be found in apparel ranging from the most inexpensive to the costliest. In this modern era, there are many types of fashion for example vintage style fashion, casual fashion style, chic fashion style, and elegant fashion style. Apart from all the many sorts of fashion styles, the most recent fashion trends include wearing easy-to-wear apparel while still appearing attractive since they make an attempt to seem more trendy and fresh (Perry, 2020). In addition, fashion also can be categorized according to people's religion and culture. For Muslim people, they tend to follow the Islamic fashion style meanwhile for other religions, more to western fashion.

Muslimah Fashion (Hijab)

Hijab can be defined in many ways, some might think that hijab is a headscarf that is used to cover and conceal a female's chest area and all of the hair on her head (Wilson and Liu, 2011 as cited in Fikry & Ahmad, 2019). Another way of thinking says that the hijab is a modest style of Islamic dress that refers to the common headscarf, covering the hair and shoulders but not the face (Everett, Schellhaas, Earp, Ando, Memarzia, Parise, Fell, and Hewstone, 2015 as cited in Fikry & Ahmad, 2019). Hijab is like a crown for Muslimah even though it is just a scarf but this scarf plays an important role for them. Hijab is one of the styles that Muslim women look for and care about when they dress before they go out. There are so many styles of Hijab out there that they can follow and match up with their outfit.

a) Hijab Material

In order to feel comfortable and at the same time obey the demands of religion, Muslimah has to select the material of hijab that they like. There are many types of hijab material that Muslim

women can choose the first one is the chiffon hijab which is most of the common hijab fabrics that have in the store and many women wear them (Haute, 2022). Chiffon is typically made of medium or lightweight polyester and it is airy and slightly sheer. This fabric makes it great for warmer weather and makes it easy to drape elegantly so it is perfect for professional and formal wear (Haute, 2022). Second, Jersey Hijab is the most comfortable hijab fabric because the fabric is soft, stretchable, and also has the ability to wrap with ease and no pins. Other than that, pleated hijab fabric is also one of the choices that youngsters in Malaysia nowadays wear. This fabric is also the newer option for Muslim women this fabric gives a lovely textured drape to hijab styling with a special pleating process to ensure that the pleats stay in place and do not flatten out over time (Haute, 2022).

Next, the Satin hijab gives the look of smooth and shiny with a liquid drape this hijab is perfect for formal looks or anything that calls for something a little extra special. Another well-liked hijab fabric is woven fabric, which is also called viscose by other hijab firms, because it is breathable, feels light, and is easier to fold and wrap (Haute, 2022). The most common type of rayon fiber is a semi-synthetic material mixed with natural fibers to make woven fabric (Haute, 2022). Pashmina hijab is a Kashmiri fabric and it is elegant in its own right. This fabric will make person who wear this hijab look amazing for any occasion. Another comfortable hijab to wear is fringe crinkle cotton. Other than comfortable, this hijab material will also make person who wear it look classy (Hashtag, 2018).

Cotton hijab material can be categories in two different type which are premium cotton and ripple cotton. The ripple cottons material is softer and feels different. Meanwhile, the cotton premium design is quite elegant and appropriate for any occasion. Cotton fabric gives elegance look and it is non-slip when wear. Silk hijab material and there are many different shades and patterns of silk hijab can be found. The hijab has a beautiful appearance due to the shimmer and designs of real silk fabric. When mixed with lacework, it appears to be a work of art and gives off a grand yet cozy vibe.

b) Hijab Style

Muslim women usually have their hijab style that they preferred suitable for the event that they attend and also with their facial structure. The hijab style can be worn in a variety of ways, depending on the occasions, seasons, and matching (Swaliha, 2021). For the newbie in the hijab fashion, this will be quite difficult for them to choose, make decisions and learn the style but in this modern and have a lot of helpful technology these will be not a big problem for them. They are tons of styles around the world that Muslim women can choose and practice. The style that Muslim women like to wear is the simple hijab style as shown in Figure 2.10. As the name, it is very simple and basic because only required five steps. First, drape a shawl over the head then, pin up both sides of the scarf together under the chin next, flip one end of the scarf behind the opposite shoulder and flip the same end back to the front of the other shoulder last, spread both the ends of the scarf so that they will cover the chest. Besides, wrapping the hijab with the accessories on it is also a style that people like because with this style they can add a bit of sparkle and shine to the plain hijab (Arshiya, 2022).

Another common style that can easily and probably most practical style for every wear is the side-pinned style this style takes less than two minutes and also does not budge throughout the day (Arshiya, 2022). People who wear glasses can try to wear a classic hijab style if they do not want to have the shape of the glasses when they are on the hijab. Another comfortable and easy-to-do style which are Dupatta-style. This style were categories in casual look hijab style.

People who are in a rush and do not have time to wrap the scarf should use this style (Olivia, n.d.). Muslim women can cover their hair when wearing a loose style by wearing an under cap.

The glamorous hijab style looks much better when worn with light fabric material like cotton and fringe crinkle cotton. One pin is needed in order to wear this hijab style. This style is great option for women that looking for extra coverage. Moreover, this style was versatile and works with almost kind of fabric. Loose Drape style is well suited to pair with a necklace or brooch. Additionally, this style was perfectly fine for people with glasses to wear it.

Data collection from Website

The data collecting technique is the process of obtaining, measuring and analysing reliable data from a wide range of sources in order to answer research questions, evaluate outcomes, and anticipate trends and probability. Effective data collection techniques increase the validity or accuracy of research findings or results (Kumar, 2016). Since it makes it possible to quickly summaries, compare, analyze, and generalize previously obtained data, data collecting is important in the digital ecosystem (Nurdiantoro et al., 2018). Web scraping is a method for extracting data from the World Wide Web (WWW) and storing it in a file system or database for subsequent retrieval or analysis (Zhao, 2020). In another word according to (Amalia et al., 2018), web scraping also known as the process of retrieving a document from the internet, typically a web page in a markup language like HTML or XHTML, then analyzing the precise data to be obtained from that page used in certain purposes. Web scraping is only concerned with acquiring data by retrieving and extracting data of various data sizes.

3D Modelling

Three-dimensional (3D) modeling is the process of creating three-dimensional representations of an object or a surface (Bishop J., 2023). Three-dimensional modeling also in other article define 3D modelling as the process of creating a three-dimensional object within simulated software (Riley T., 2019). 3D can be constructed from basic forms to complicated high-polygon models; the object may be constructed. A polygon is one triangle, whereas a circular or complicated shape is made up of numerous triangles. 3D models may be made from existent objects as well as ideas that have yet to be realized in real life. 3D modelling is widely used in the film and television industries, video game development, architecture, and engineering.

According to Jafarian, Y., & Park, H. S (2022), Hijab Style Fashion Photo Cam is a free application to try the hijab style virtually in a two-dimensional (2D) look. This application has a variety and random styles and types of hijabs on the first interface that users might see when they jump into the application. By using this application, the user can select the hijab style that they like then, the user has to import their image (face) from the device gallery and align the image with the blank face of the model given. Hijab Style Fashion Photo Cam offers many editing tools at the bottom of the model given including flip, stickers, overlays, and add text. The user also can save, share or set the image as their device's wallpaper if they wish for that. All the styles that this mobile application offers were famous styles that Malaysian women always wear. WoozeeGroup (2020), Face in Hijab is an application that can help Muslim's women to get an idea on what fashion users can do every single day. My Feature Apps (2019), Hijab Scarf Styles for Women is a simple hijab photo editor application that create specially for Muslim women. This application has latest designs of Muslim scarf, stylish head scarf and hijab photo frames to edit user's photo. This application allow user to zoom in or zoom out hijab fashion picture that already be provided in the app. After select hijab style photo, the

application will ask user to import image from device or user also can capture real time image from user's device camera.

Methodology

The methodology used is based on the rapid application development (RAD) model and it consist of four phases which includes requirement or planning, system design, development, and cutover. The system design and development phases will be done repeatedly before move to the last phases which is cutover. Table 1 shows the summary on the details of the phases that is involves in the life cycle of Hijanis Style application which is based on the rapid application development (RAD).

Table 1: Project method

Phase	Activity	Deliverables
Requirement / Planning	<ul style="list-style-type: none"> Gathering all the information needed. Plan all the application function, features and the technique that will be used. Searching the 3D model source that can be used in the next phases. 	<ul style="list-style-type: none"> Literature review Problem statements, objective and significance. Use case diagram Comparison of related works. Technique and software required.
System Design	<ul style="list-style-type: none"> Flowchart, Entity Relationship Diagram (ERD) and User interface 	<ul style="list-style-type: none"> Flowchart ERD User Interface design.
Development	<ul style="list-style-type: none"> Development of the interface of the mobile application. Development of the modules for the application. Development of the 3D hijab style module for the application. Development of web scraping to be implement in the application. 	<ul style="list-style-type: none"> Hijanis Style application.
Cutover	<ul style="list-style-type: none"> Testing the application if there is a bug. Made final changes while continued to look for other error in the system. 	<ul style="list-style-type: none"> Complete the project.

Result and Discussion

The Hijanis Style application has two sorts of users: normal users and administrators. Normal users are not required to register or create an account. This interface depicts how the system's procedure works. Figure 1 shows the first page of the application. Figure 2 shows the informational pop-up message. This information message will tell user how the application will work. On this pop-up message, there will be two button 'Close' and 'Got It'. Figure 3 shows the main page of the Hijanis Style application for user side. This is the page where the web scraping method was implemented, in which the data scrape is hijab material.

Figure 1: First page of the application

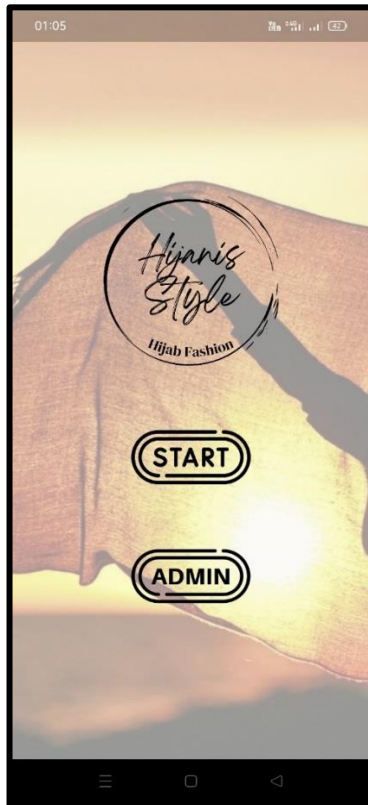


Figure 2: Informational pop-up message

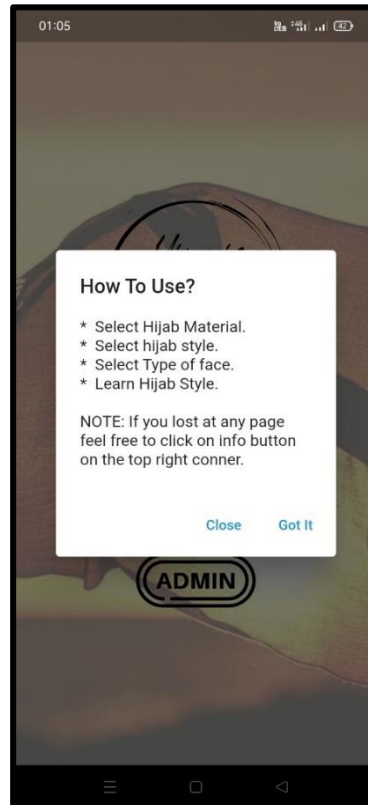


Figure 3: Main page of the Hijanis Style application

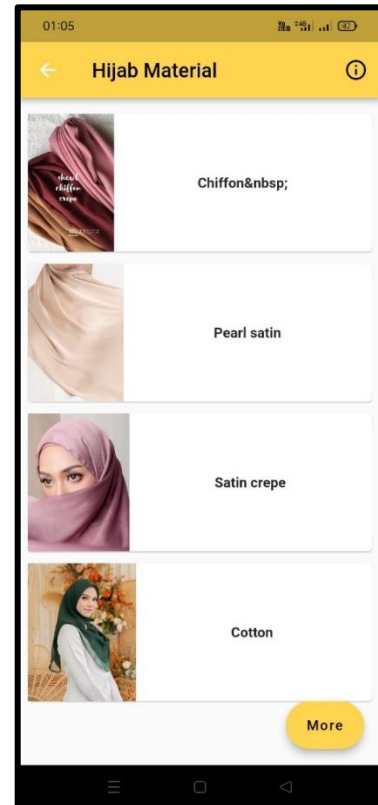


Figure 4 shows the main page of the Hijanis Style application for user side. In this page, there have an information icon at the top right corner of the page. When user click on this icon, the informational message will be pop-up. This message will explain how this page work. For this informational message, 'Close' and 'Got It' button were play same role of exiting the pop-up message. Figure 5 shows the list of style that are available. The list of the style were data that has been call from the database. In this page also, there have an information icon at the top right corner of the page. Figure 6 shows the list of face type that are available. The list of the face type were data that has been call from the database. In this page also, there have an information icon at the top right corner of the page.

Figure 4: Informational Pop-up Message on Main Page User Side

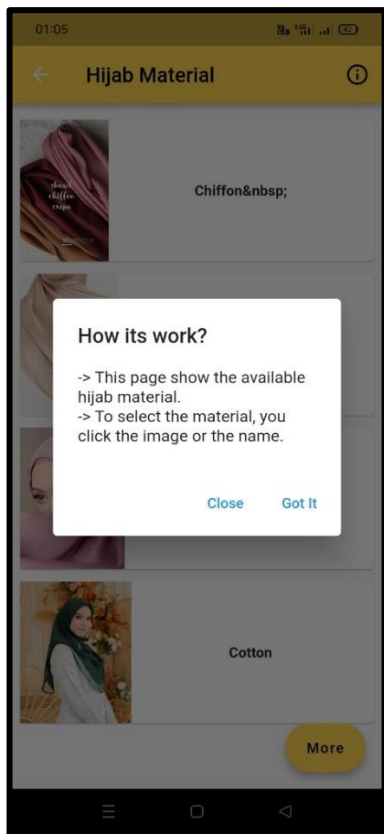


Figure 5: Hijab Style Page

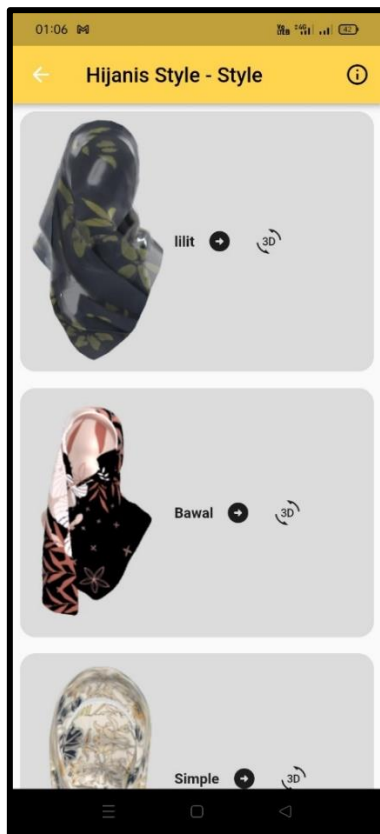


Figure 6: Face Type Page

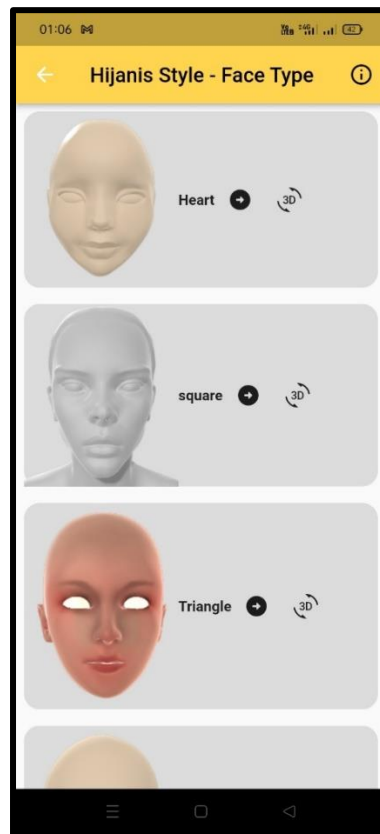


Figure 7 shows the 3D model in Model Viewer mode. User can rotate the model in 360-degree angle also, user can zoom in and zoom out the model. Below the model, there has an AR icon powered by Google. The AR mode also play the same role as model viewer mode. The model can rotate, zoom in, and zoom-out. In this page also, there have an information icon at the top right corner of the page. Figure 8 shows the combination of the hijab style and the face type that user has selected from previous page. In this page also, there have an information icon at the top right corner of the page. Figure 9 shows the list of the video from Ami Scarf channel. This page will be display after user click on Learn style button.

Figure 7: Face Type Page



Figure 8: Combination Page



Figure 9: List of Video from Ami Scarf channel

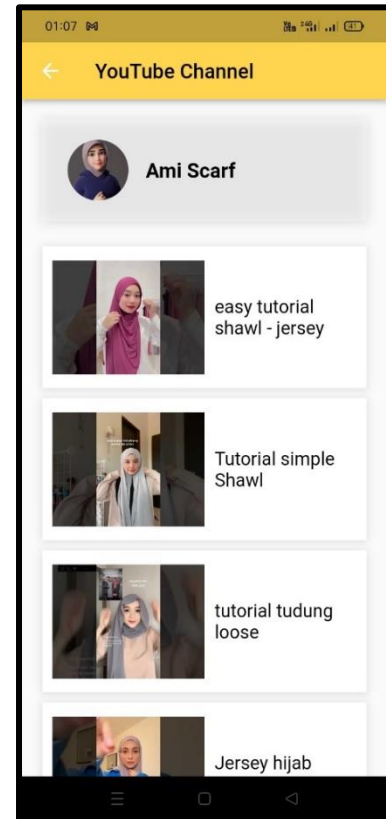


Figure 10 shows the main page of the admin side. On this side there have a log-out icon at the top right corner of the page. When user click on this icon, she will logout from the account. Additionally, on each tile, there has 'pencil' icon that indicate edit and 'dustbin' icon indicate delete. The add button and next page button was in the floating menu button. Figure 11 shows the edit form. In the edit form, the admin can change current image by clicking the camera icon and click on the 'Upload' button in order to store the image in the database. Below upload button, there have text field and after user have done edit the data, she has to click on the 'Update' button. The new edited data will be display right after the admin click on update button. Figure 12 shows the function of the floating action button. This menu floating button contain two additional button which are add button and next page button. Admin can add new data by clicking the add button and next page button to go to the next page.

Figure 10: Register Page

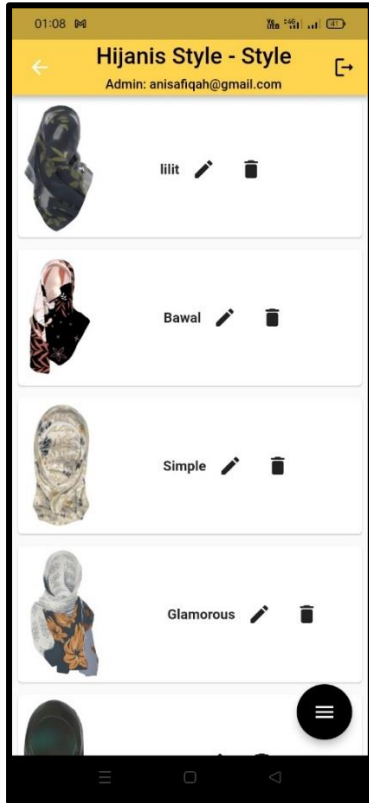


Figure 11: Edit Form

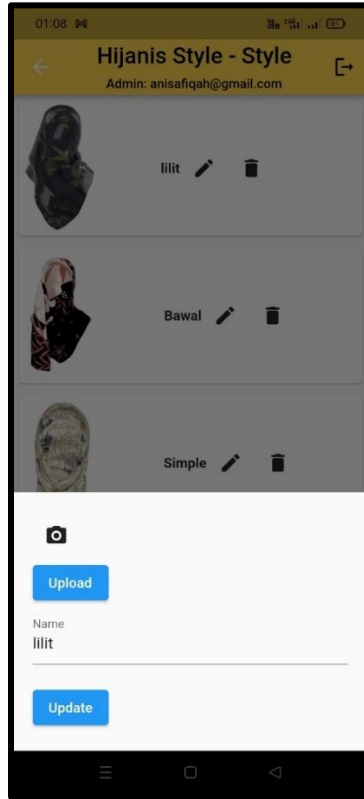


Figure 12: Floating Menu Button

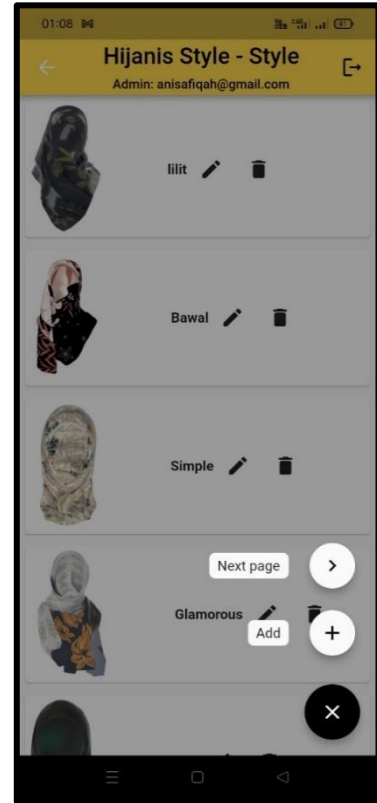
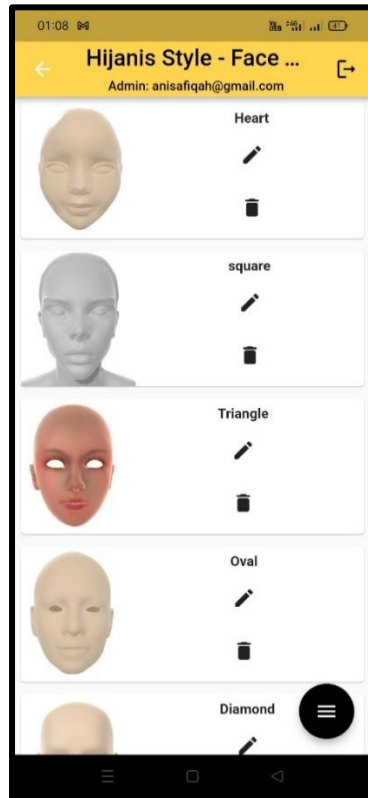
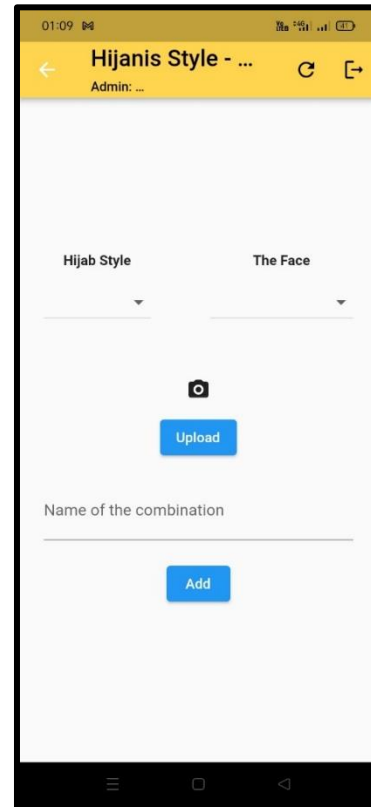


Figure 13 shows the face type page. In the face type page, on each tile, there has 'pencil' icon that indicate edit and 'dustbin' icon indicate delete. The add button and next page button was in the floating menu button. Additionally, on each tile, there has 'pencil' icon that indicate edit and 'dustbin' icon indicate delete. The add button and next page button was in the floating menu button. On this side there have a log-out icon at the top right corner of the page. Figure 14 shows the combination page that admin can edit. On this side there have a log-out icon at the top right corner of the page. When user click on this icon, she will logout from the account. At the top of the page also have the refresh icon. This icon can be used when the drop-down list does not appear. The hijab style and the face list in the drop-down button will be updated if admin have made a change like add a new style or face, edit or delete them on the database.

**Figure 13: Face Type page
(Admin)**



**Figure 14: Combination Page
(Admin)**



Conclusion

Overall, the Hijanis Style application does not fully address the user's need to save time while selecting a hijab style. However, the application assists users who want to learn more about the hijab style and may use this application as a learning medium. This tool also aids in reducing the amount of time spent searching for hijab style tutorials on various websites. Finally, users may save time while looking for hijab lessons by acquiring the hijab style from one page and locating the tutorial on another.

This project was created with three goals in mind. First, create and construct a hijab-style application utilizing web scraping and a 3-dimensional model, which has been completed successfully. The Flutter framework was utilized for user and administrative apps. Second, functionality testing will be used to assess the functioning of the hijab-style mobile application. Third, employ a user acceptance test to assess the application's usefulness. The second and third objectives were likewise met with success.

The implementation of a 3D model has alleviated the user's curiosity about how the style would seem from the rear or from any angle. For example, if the user is unfamiliar with specific hijab styles, viewing the model in 3D might assist the user. As a result, the user may rotate the model 360 degrees, zoom in and out, and get a better picture of the style. Aside from that, online scraping may be used to obtain hijab content from another website. As a result, the hijab material is always up to date.

Finally, this project was created on a mobile application platform since mobile devices are portable and can be used and brought anywhere and at any time. This project will facilitate the user's learning and selection of a hijab style for daily use.

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