

# Tadarasu Application



Course: IT342

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## Introduction

Tadarasu Application that combines audio-visual Islamic sciences in one place with the possibility of adding by users and creating their own lists in it in addition to a calendar for upcoming lessons.

## Problem Statement

In our opinion, there are many problems that hinder students of Islamic sciences or normal people (who are not specialized in Islamic sciences) in searching Islamic sciences, the most prominent of which are what we have seen:

- **The large number of scholars and their differing Islamic doctrines**
  - This makes the non-specialist researcher scattered, so that the path of his research or his choice of the scientist is a choice that contradicts the researcher's doctrine
- **The many websites of scholars and the difficulty of searching for the correct ones**
  - This is specifically in the case of the former scholars who died, as there is often no official website for each scholar and therefore many websites are created in which he presents his sayings, which may be for malicious purposes.
- **Difficulty searching for a specific matter**
  - This particular problem is encountered by ordinary people (not specialized in Islamic sciences), for example, who find it difficult to know what department a matter belongs to or what branches of this matter are.

## Objectives Project

- **Gathering Islamic sciences in one place**
  - This includes the visual, audio and written sciences in one place in their various forms such as speeches, lectures, seminars and other formats that benefit from it.
- **Facilitating access to Islamic sciences for researcher**
  - By collected and arranged in a way that facilitates the user of the application to reach faster
- **Spreading religious awareness**
  - By targeting the application to all people
- **Facilitate finding lessons, lectures and courses for students of Islamic science**
  - This is done by announcing about upcoming lessons, lectures and courses
- **Long application life**
  - Although the idea of our application may seem common, the problem with such applications is that updates stop and therefore die at some point

## Scope

In our mobile application project, we are targeting all people who want to know more about Islam, you can use this app to store and save all audio and visual Islamic sciences in one place, and if you have in knowledge, you can add this knowledge in the application easily.

Through the technological development and the mobile industry, we notice that paper books are gradually disappearing and the attendance lectures that are difficult to collect in one place and in our application, we make it easier for everyone to collect these books and lectures in one place and the ease of adding and storing them

## **Firebase**

### **What is firebase:**

When you design an applications like mobile applications the database is kind of big problem and not because it's hard to design, but it consumes a lot of bandwidth trafficking between a database and the application front end.

A firebase gives you a complete solution about how things can be taken down

It's a very good solution complete back-end solution that you can put up there

Firebase allows developers to concentrate on creating amazing user experiences.

You are not need to manage any servers. There's no need to develop APIs.

Firebase is your server, API, and datastore, all written in a way that allows you to customize it to fit your specific needs. Yes, you'll need to leverage other parts of the Google Cloud for complex applications on occasion. It's impossible for Firebase to be everything to everyone. However, it comes close.

### **Functions firebase:**

**Authentication firebase:** In firebase you can do all sort of authentication are by:

1. Email / Password (most common)
2. Phone
3. Anonymous
4. Google Account
5. Facebook Account
6. Twitter Account

7. Play Games Account
8. Game Center Account
9. Apple Account
10. GitHub Account
11. Microsoft Account
12. Yahoo Account

It also allows you to customize custom templates for each message:

Email ?

Email address verification

Password reset

Email address change

SMTP settings

SMS

SMS verification

Template language

English

Email address verification

When a user signs up using an email address and password, you can send them a confirmation email to verify their registered email address. [Learn more](#)

Sender name

not provided

From

noreply@it342-e1781.firebaseio.com

Reply to

noreply

Subject

Verify your email for %APP\_NAME%

Message

Hello %DISPLAY\_NAME%,

Follow this link to verify your email address.

[https://it342-e1781.firebaseio.com/\\_/auth/action?mode=action&oobCode=code](https://it342-e1781.firebaseio.com/_/auth/action?mode=action&oobCode=code)

If you didn't ask to verify this address, you can ignore this email.

Thanks,

Your %APP\_NAME% team

**Realtime Database:** When you connect your app to Firebase, you're not using standard HTTP to do so. You're using a WebSocket to connect. HTTP is considerably, much slower than WebSocket's. You don't need to perform many WebSocket calls because a single socket connection suffices. All of your data syncs automatically as fast as your client's network can handle it across that single WebSocket.

As soon as fresh data is available, Firebase provides it to you. When your client saves a change to the data, the revised data is sent to all linked clients nearly quickly.

**Firestore Database:** Firebase's newest database for mobile app development is Cloud Firestore. With a new, more understandable data model, it builds on the triumphs of the Realtime Database. Cloud Firestore also has more powerful, quicker searches and is more scalable than Realtime Database.

**Storage firebase:** Firebase Storage allows you to save binary files — most commonly photos, but anything goes — straight to Google Cloud Storage from the client!

To safeguard your G-Cloud bucket from the masses, Firebase Storage has its own set of security restrictions, while allowing comprehensive write capabilities to your authenticated customers.

**Hosting firebase:** For all of your static files, Firebase features an easy-to-use hosting solution. It uses HTTP/2 to deliver them from a worldwide CDN.

And, to make development even easier, Firebase hosting makes use of Superstatic, which you can use for all of your testing locally.

The development environment for BrowserSync + Superstatic is quite nice. BrowserSync reloads your development app across all connected devices, while Superstatic replicates Firebase hosting locally so you can push directly to Firebase for production usage.

There are also many pre-installed services such as "Functions" and "Machine Learning", and many services that you can install later such as "Run Payments with Stripe" and others

## **Features expected to be added to the project**

### **■ Save to read later**

- Adding the content that the user would like to return to for later reading to a list linked to his own account in order to save the user's time

### **■ A calendar of upcoming lectures, lessons and courses**

- An online calendar that contains upcoming lectures and lessons, whether in presence or remotely, with the ability to save them in the calendar application on the user's phone

### **■ Translating articles and visual content**

- This is by adding the "zTranslate" tool to video content, and "Google translate" for articles.

### **■ Discussion system**


- Adding a discussion system at the bottom of each published content in order to exchange opinions and ideas

### **■ Allow users to add content themselves**

- This is in order to ensure that the application will live as long as possible even without an actual administration, knowing that there will be an algorithm for content filtering in addition to another voting algorithm by users to filter content



# Questionnaire design and questions



تدارسو  
Tadarasu

السلام عليكم ورحمة الله وبركاته

We are computer students, Department of information technology ,  
in this questionnaire we aim to gather information that will help us  
in developing our application as will as gathering information that  
will help us getting a clear image of what we need to know

نحن طلاب قسم تقنية المعلومات بكلية الحاسب في جامعة القصيم، في هذا الاستبيان نهدف إلى  
جمع المعلومات التي ستساعدنا في تطوير تطبيقنا وكذلك جمع المعلومات التي ستساعدنا في  
الحصول على صورة واضحة لما نحتاج إلى معرفته.

1- Section one | القسم الأول

\*Gender | الجنس

1 Male | ذكر

2 Female | أنثى

البدء

0% Answered

powered by Porline

1- Section one | القسم الأول

\*Age | العمر

1 12-18

2 19-25

3 26-32

4 32-Above

1- Section one | القسم الأول

\*?Are you a student in any islamic science disciplines  
هل أنت طالب في أحد تخصصات العلم الشرعي؟

1 Yes | نعم

2 No, but I am interested in  
islamic science | لا، ولكني مهتم  
بالعلوم الشرعية

3 No | لا

15% Answered

powered by Porline

29% Answered

powered by Porline

## 2- Section second | القسم الثاني

\*?What type of content do you prefer when researching islamic science

ما هو نوع المحتوى الذي تفضله عند البحث العلم الشرعي؟

- 1 Visual | مرئي
- 2 Audible | مسموع
- 3 Written | مكتوب
- 4 Not interested in a specific way | غير مهتم بطريقة محددة

OK

## 2- Section second | القسم الثاني

\*?What is the most appropriate way for you to follow the lectures and lessons of Islamic science

ماهي الطريقة الأنسب لك في متابعة محاضرات ودروس العلم الشرعي؟

- 1 Live meeting (Face-to-Face) | لقاء مباشر (وجهًا لوجه)
- 2 Online (live broadcast or interactive meeting) | عبر الإنترنت (مباشر أو لقاء تفاعلي)
- 3 Not interested in a specific way | غير مهتم بطريقة محددة

## 2- Section second | القسم الثاني

\*?Have you ever felt distracted when searching for a fatwa/matter islamic due to the large amount of content posted about it

هل سبق أن شعرت بالتشتت عند البحث عن فتوى/مسألة شرعية من كثرة المحتوى المنشور عنها؟

- 1 Yes | نعم
- 2 No | لا
- 3 Maybe | ربما

## 2- Section second | القسم الثاني

\*?Do you have a scientist/scientists whose opinions you always follow when you research

هل لديك عالم/علماء تتبع آرائهم دائمًا عند بحثك؟

- 1 Yes | نعم
- 2 No | لا

2- Section second | القسم الثاني

\*:Write down the names of the scientist/scientists whose opinions you follow

:اكتب أسماء العالم/العلماء الذين تتبع آرائهم

Type your answer here

2- Section second | القسم الثاني

\*?Do you find it difficult to find lectures and lessons of islamic science

هل تجد صعوبة في العثور على محاضرات ودروس العلم الشرعي؟

1 Yes | نعم

2 No | لا

2- Section second | القسم الثاني

\*:Write down the methods you use to find lectures and lessons on islamic science

:اكتب الطرق التي تستخدمها في العثور على محاضرات ودروس العلم الشرعي

Type your answer here

2- Section second | القسم الثاني

\*?What do you think of the applications of islamic science that are currently in the application stores

ما رأيك بتطبيقات العلم الشرعي المتواجدة حالياً في متاجر التطبيقات؟

1 Excellent | ممتازة

2 Good | جيدة

3 Acceptable | مقبولة

4 Bad | سيئة

5 I never used it | لم يسبق لي استخدامها

## 2- Section second | القسم الثاني

\*Write down the apps you've already used

اكتب التطبيقات التي سبق وأن قمت باستخدامها

Type your answer here

## 3- Section third | القسم الثالث

\*Do you think that non-Arabic speakers have difficulty searching for Islamic science

هل تعتقد ان المتحدثين بغير اللغة العربية يواجهون صعوبة في البحث عن العلم الشرعي؟

1 Yes | نعم

2 No | لا

## 3- Section third | القسم الثالث

\*What do you think of the idea of automatic translation of Islamic visual and written content

ما رأيك بفكرة الترجمة التلقائية للمحتوى الشرعي والمرئي والمكتوب؟



1 2 3 4 5

## 3- Section third | القسم الثالث

\*What do you think of the idea of an application that allows discussion of Islamic science

ما رأيك بفكرة وجود تطبيق يتيح النقاش عن العلم الشرعي؟



1 2 3 4 5

82% Answered

powered by Poreline

88% Answered

powered by Poreline

القسم الثالث | Section third - 3

\*?Have you ever had to refer to islamic content after reading/viewing/listening it

هل سبق لك ان اضطررت الى الرجوع لمحتوى شرعي بعد قراءته/مشاهدته/استماعه؟

1 Yes | نعم

2 No | لا

Thank you for taking the time to complete this survey

نشكرك على قضاء وقتك في اكمال هذا الاستبيان

هذا الاستبيان يتبع لمادة اتصال الأئمة بالحاسب



94% Answered

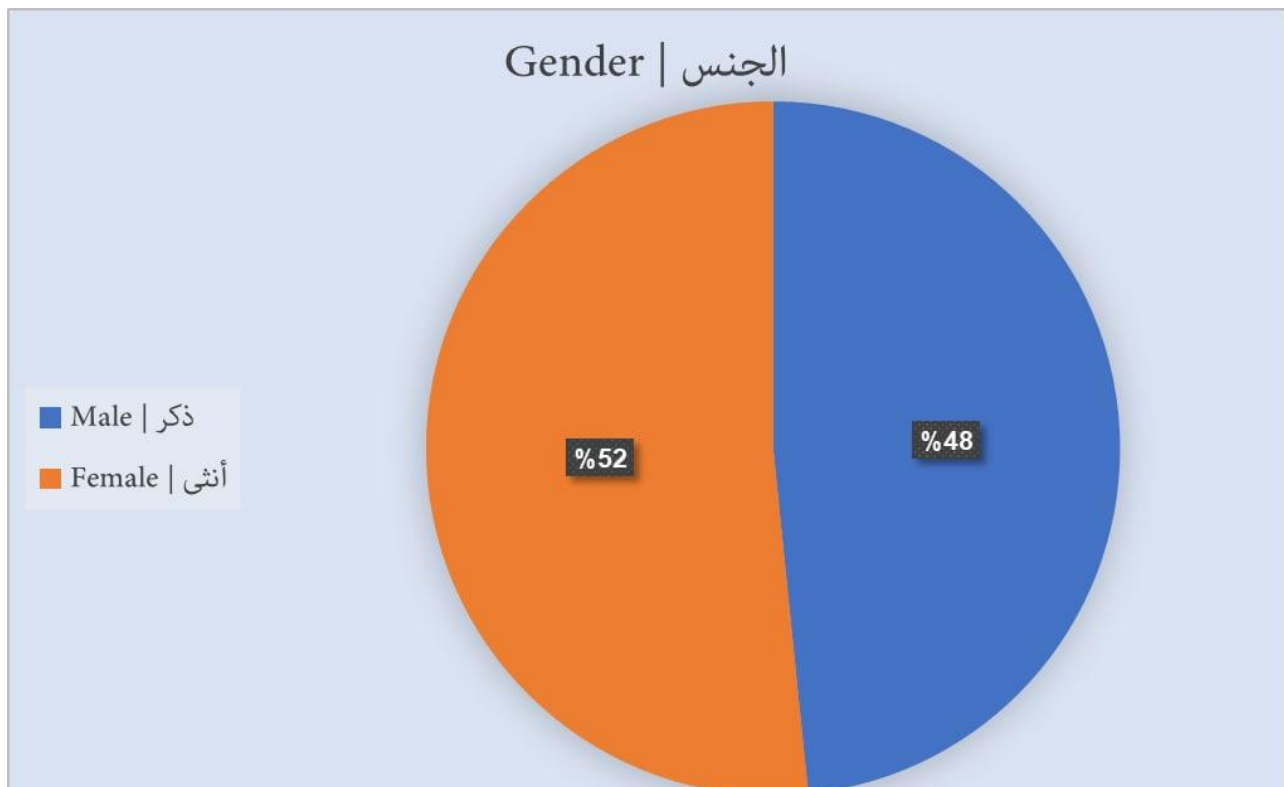
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powered by Porsline

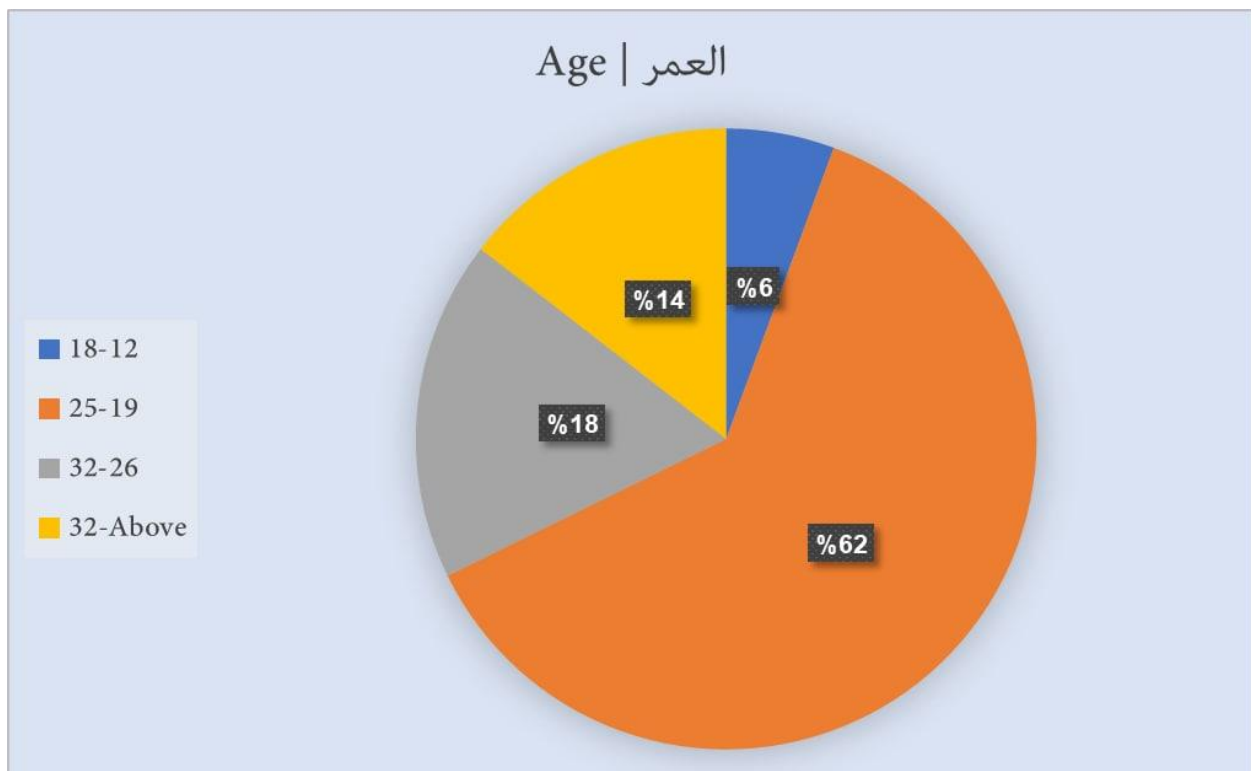
- You can view the survey directly from here <https://survey.porsline.com/s/p62yv9FV>
- The questionnaire service "[Porsline](#)" was chosen for the possibility of setting better terms and design than the rest of the services

## Analyze the results of the questionnaire

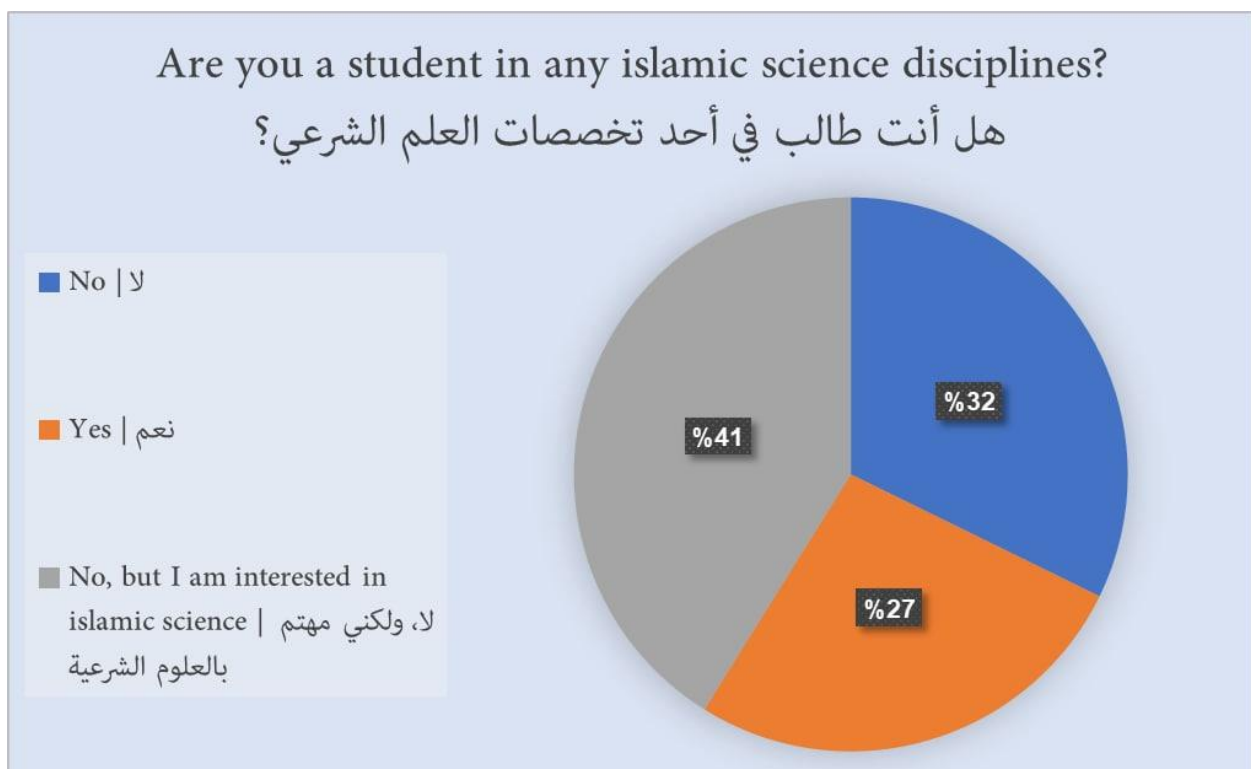
We also saw that the highest proportion of people participating in the survey were female (52%), however this is a very good percentage (approximately 50%), meaning that the answer to this questionnaire came out almost equally between the gender's male and female.



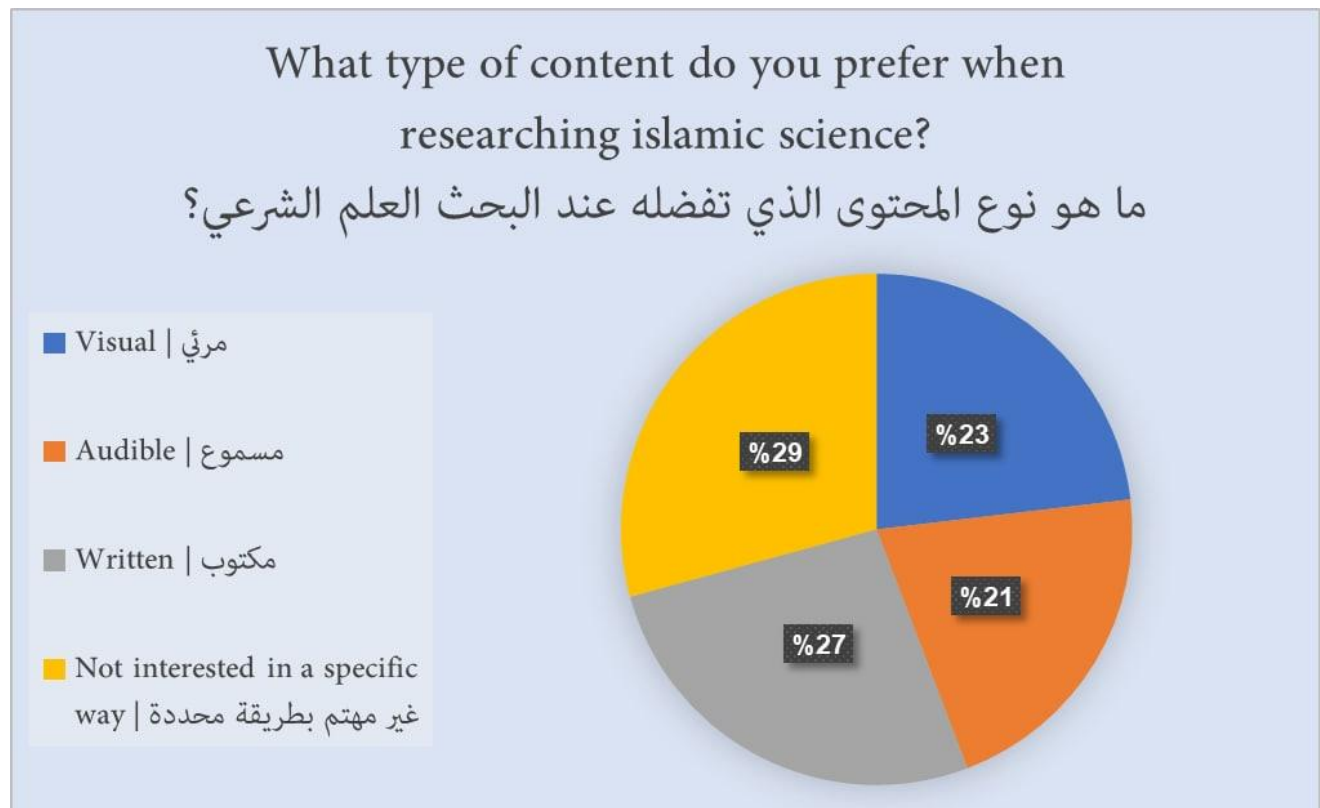
We see that a big percentage (62%) of the people who did this questionnaire are between 19-25 and after that (18%) are people whose ages are 26-32 after that 32 and more (14%) and at least (6%) are between 12-18, this gives us a conclusion that the results of this survey will be based on the orientation of the younger generation.



As we see in this survey the big percentage goes to those interested in Islamic science in (41%) after that comes the answer no in (31%) and after that the answer yes at percentage (27%), so we conclude that the majority of participants in this survey are interested in or study Islamic sciences.



As we see the percentage are so close and the answer get the highest rate is (Not interested in a specific way) after that (written) after that (Audible)at least is (Visual), we understand from that the people need information in any way served to them.



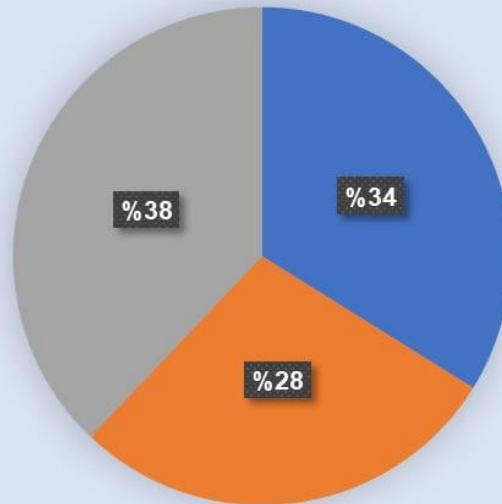
The survey said most of the people get the information in online way after that they have no specific way at least the live meeting (face-to-face) way, as we see the smallest percentage goes to live meeting because the social media effects so people need the easier way to get the information.



What is the most appropriate way for you to follow the lectures and lessons of Islamic science?

ماهي الطريقة الأنسب لك في متابعة محاضرات ودروس العلم الشرعي؟

- Not interested in a specific way | غير مهتم بطريقة محددة
- Live meeting (Face-to-Face) | لقاء مباشر (وجهًا لوجه)
- Online (live broadcast or interactive meeting) | عبر الانترنت (بث مباشر او لقاء تفاعلي)

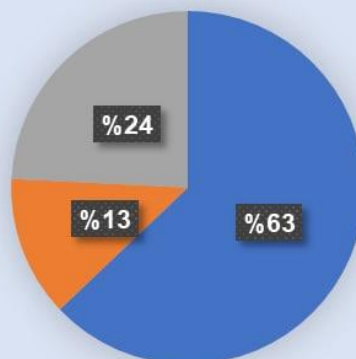


As we see in survey the most people have distracted in percentage of (63%) and the own who have it sometimes is (23%) at least (13%) whose have not distraction in searching, so we decide to prepare our application to solve this problem.

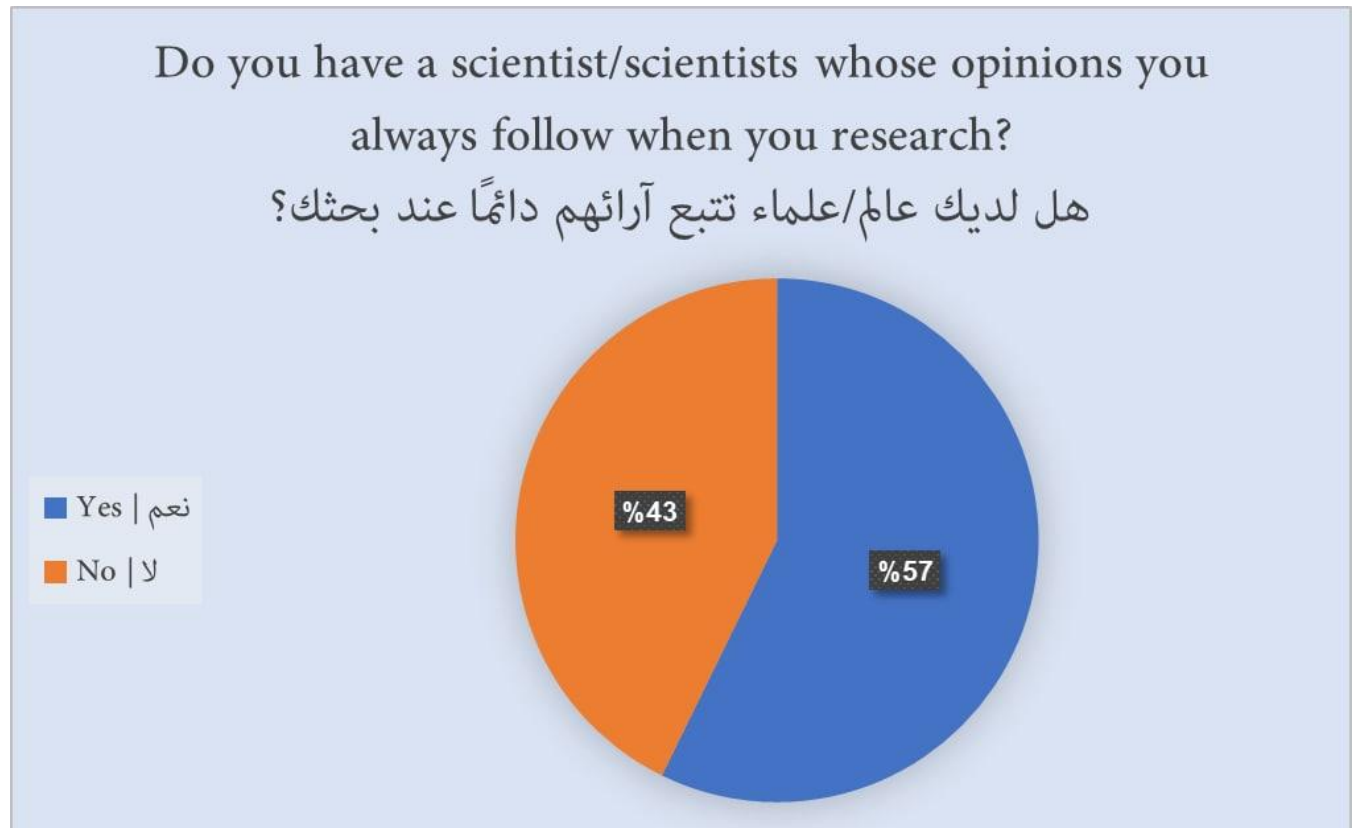
Have you ever felt distracted when searching for a fatwa/matter islamic due to the large amount of content posted about it?

هل سبق أن شعرت بالتشتت عند البحث عن فتوى/مسألة شرعية من كثرة المحتوى المنشور عنها؟

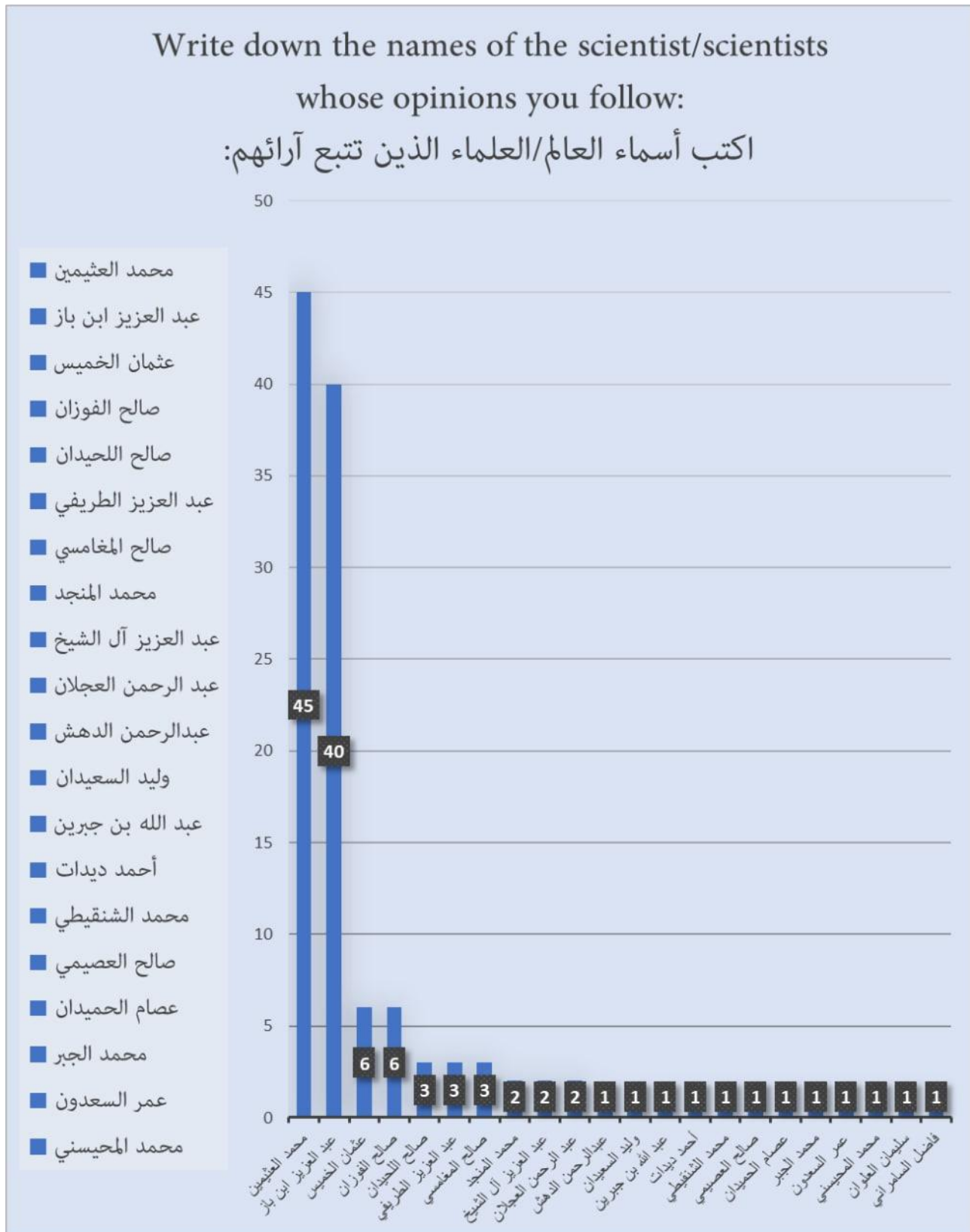
- Yes | نعم
- No | لا
- Maybe | ربما



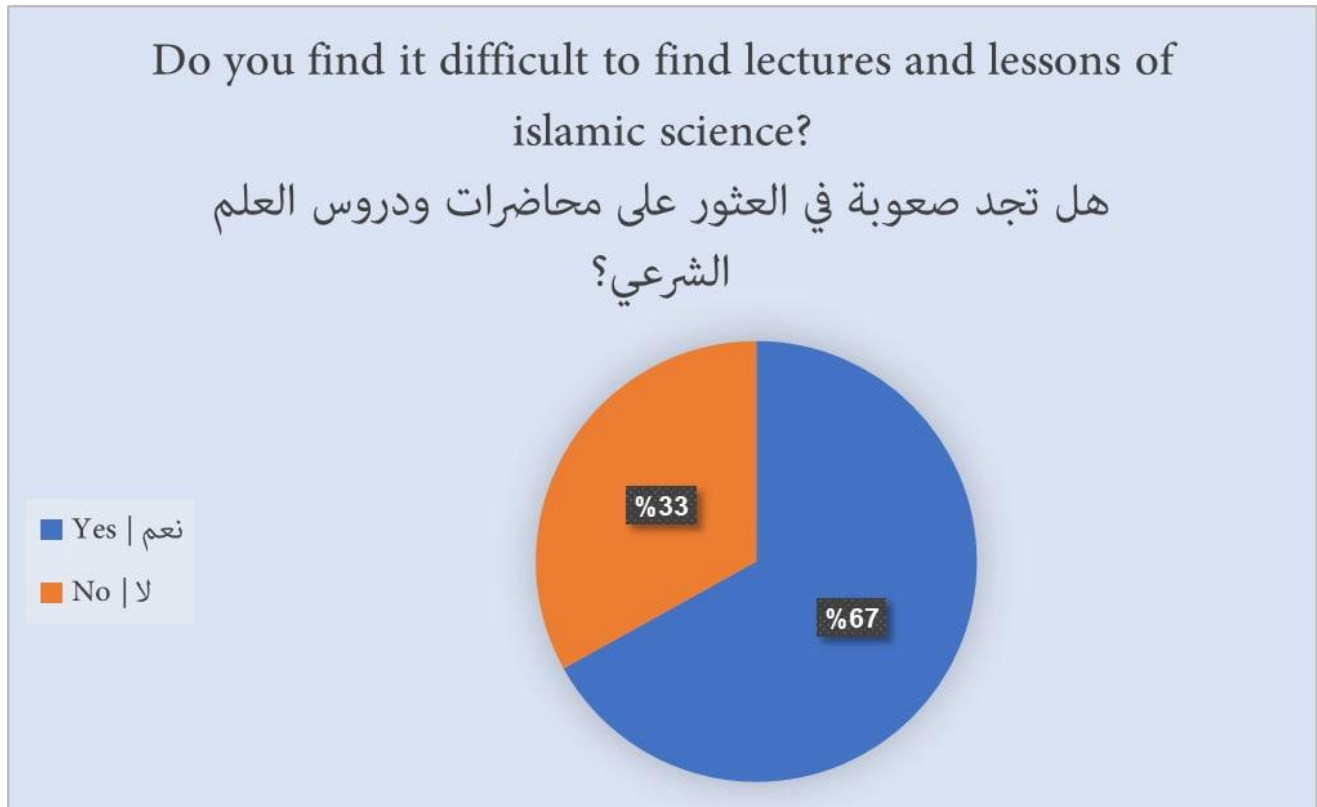
The highest percentage goes to Yes after that goes to No in order (57%) to Yes and (43%) to No, so the people are divided half of them lesson to specific scientist and the other half lesson to anyone.



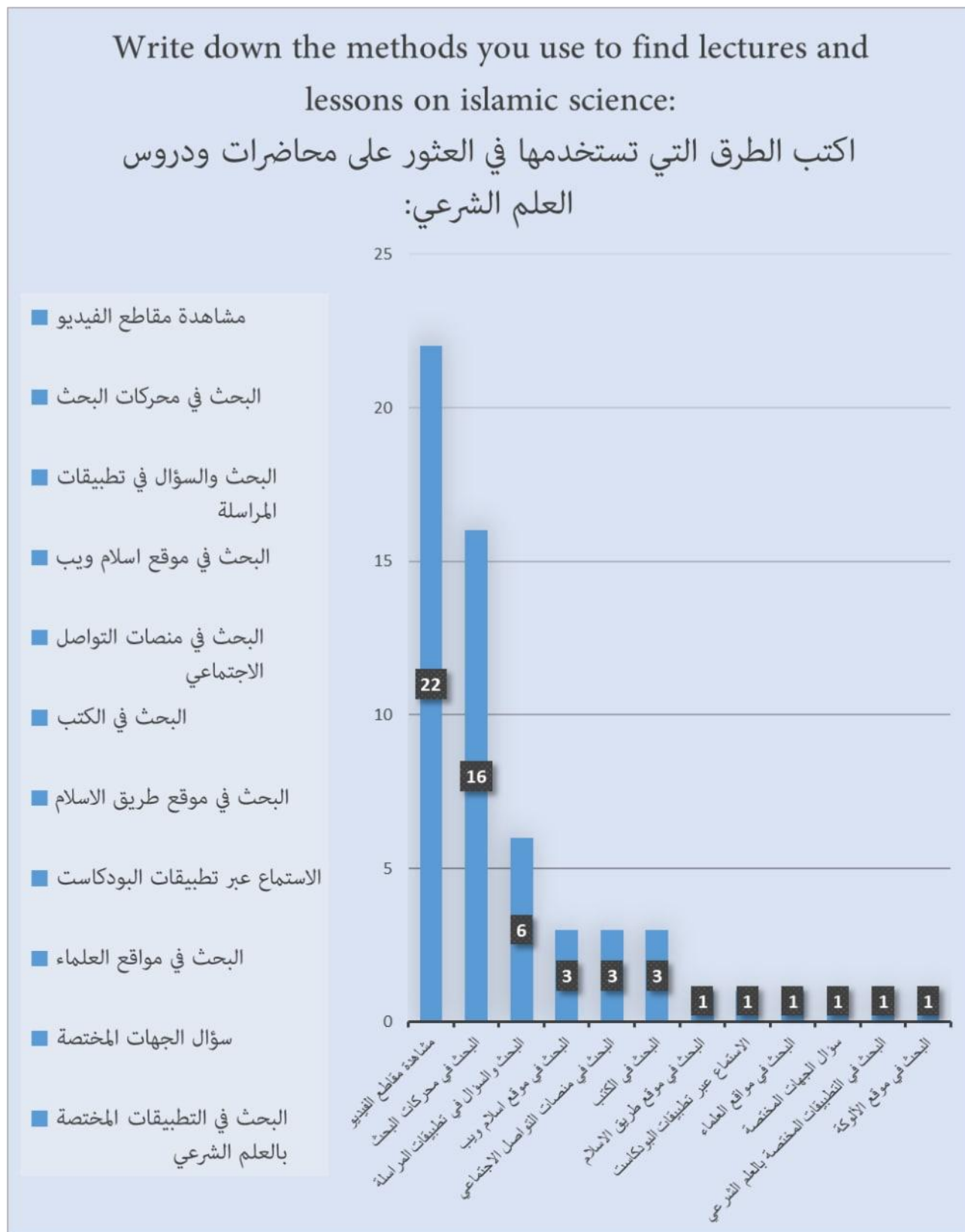
As we see almost huge numbers of people write (محمد العثيمين) and (عبدالعزیز ابن باز) in order 45 to 40 and others like we see in the graph, we Analyst that a lot of people lesson from specific scientist.



As survey shows a lot of people have difficulty to find an Islamic lectures and lessons in percentage of (67%) and (33%) percentage whose have no problem in it .so we in our applications solve this problem and make lectures and lessons easy to find.

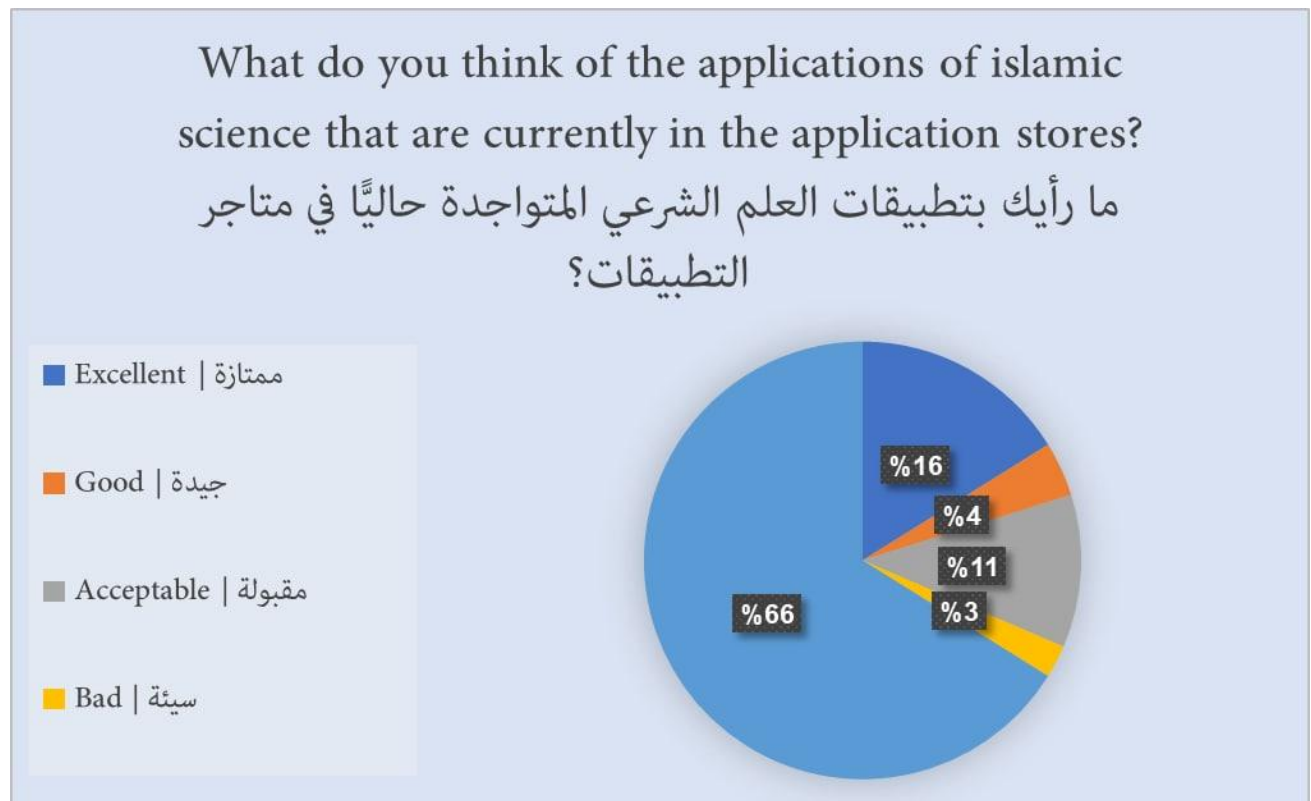


We asked those who answered “no” in the last question about how they found the lectures and lessons of Islamic science, and after cleaning the data, we concluded that the majority of people watch videos (22 votes) or search in search engines (16 votes) to find lectures and lessons of Islamic science



The survey shows a lot of people never used an Islamic application in percentage (66%) and the rest shown in graph,

So that gives us big challenge because most of people never used Islamic application before so we make our application easier to use and more convenient.



We see in graph a small number of apps people are using, so our ambition to create an application that becomes known and useful to a lot numbers of people.





Since we see the highest percentage in our survey (69%) saying yes and (31%) the percentage saying no, we conclude that there is room for expansion later in adding other languages to the app



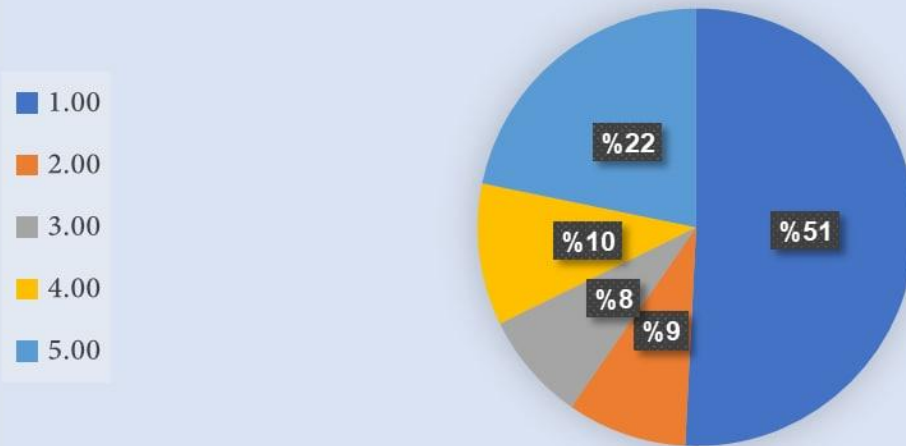
We put a number between 1 to 5 to see the importance of translations the visual and written content so we see a lot of people choose 1 and it is means isn't important to put this feature in our application.

In addition to some problems, the automatic translation is inaccurate, and therefore we fear that this may cause confusion among non-Arabic speakers



What do you think of the idea of automatic translation of Islamic visual and written content?

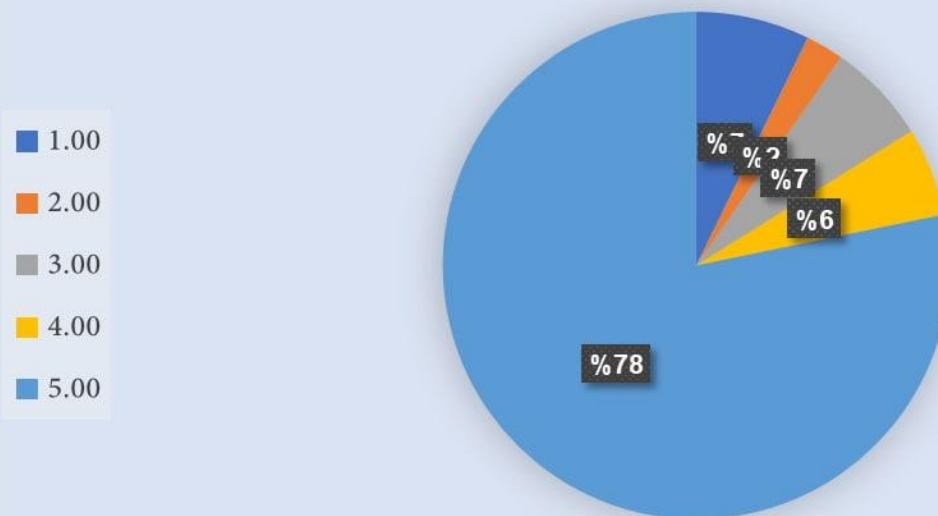
ما رأيك بفكرة الترجمة التلقائية للمحتوى الشرعي المرئي والمكتوب؟



In order 1 to 5 (1 means bad and 5 is good) our survey shows most of people want to see application in apps store that allows discussion the Islamic science.

What do you think of the idea of an application that allows discussion of islamic science?

ما رأيك بفكرة وجود تطبيق يتيح النقاش عن العلم الشرعي؟



Our survey showed that almost all of the people indicated that they had to refer to Islamic content after viewing it, so we in our app have included a feature that enables you to save the content you have read before to make it easier.



## Prototype

We made the prototype based on the data that was previously given to us in the questionnaire, you can watch us live [here](#)

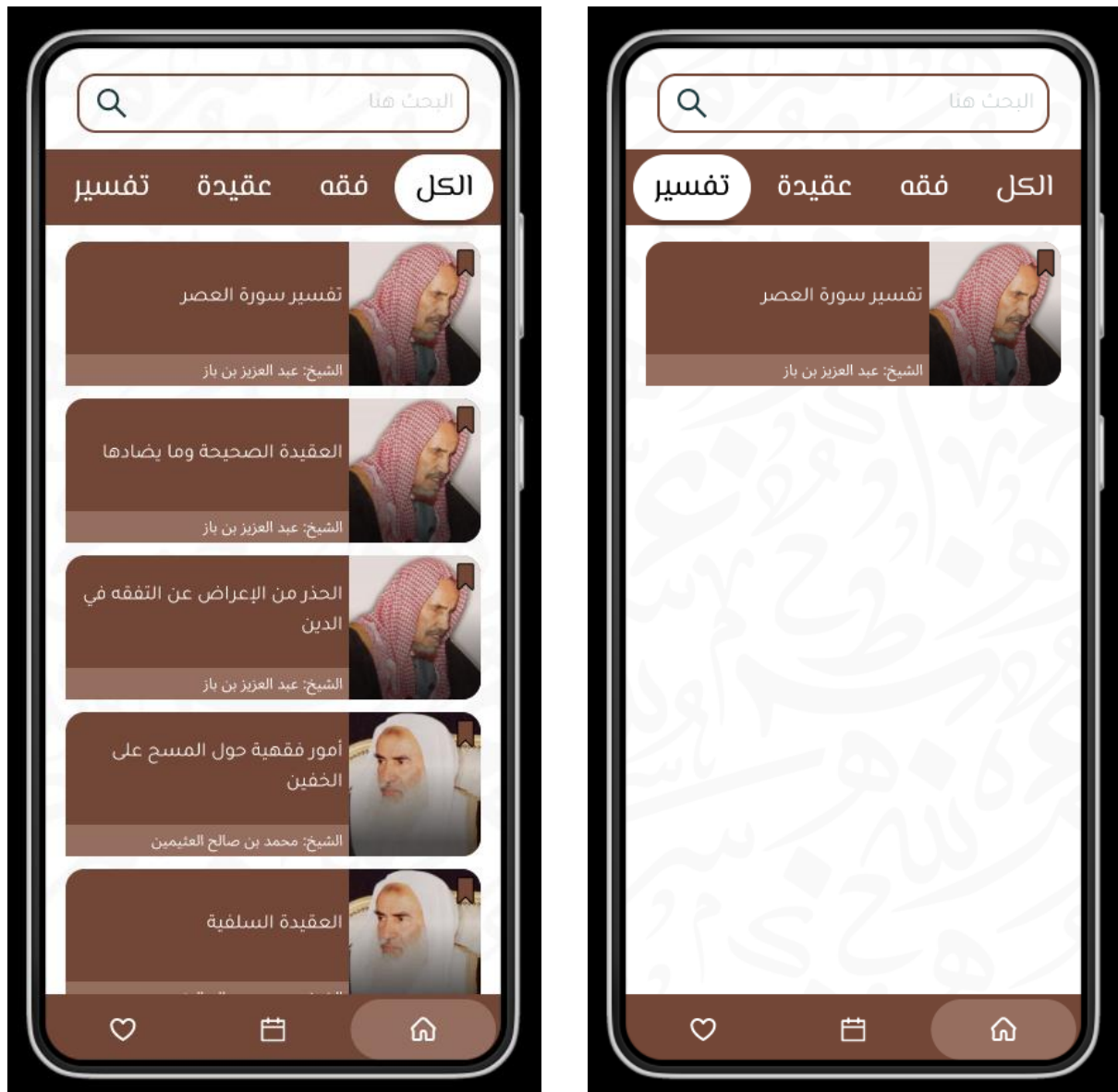
(<https://www.figma.com/proto/R7se5a70L8AhwBD1KsQaw3/Tadarasu?node-id=57%3A98>)

### Login Page

It is the page that appears to you when you open the application for the *first time*, and it includes:

- 1- Login/register via email
- 2- Login/register through social networks (Google, Facebook, Twitter)
- 3- Recover the password for registered accounts via email
- 4- Follow up as a guest

## Home Page



It is the page that will appear to you after logging in / logging in as a guest through the application and includes the following:

- 1- A list displaying the published content (and can be customized according to all categories or a custom category)
- 2- Search box
- 3- The ability to add content to the reading list later through an icon in the content image

## Calendar Page

This is a page that contains a calendar of upcoming lectures, lessons and courses and allows you to:

- 1- The ability to export the event to the phone's calendar
- 2- It allows viewing previous and upcoming lectures, lessons and courses through an easy calendar that allows you to view according to the day, month and year



## Read Later Page

It is a page that contains what the user has saved from the content that allows him to read it later with ease

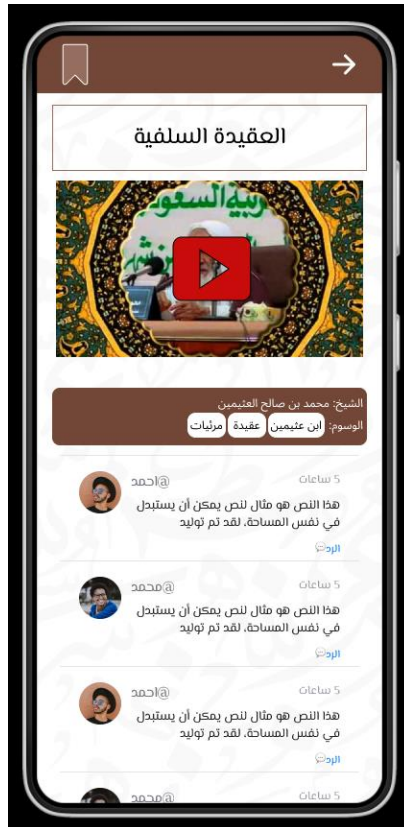


## Content Page

Example of article content



Example of video content



Example of audio content



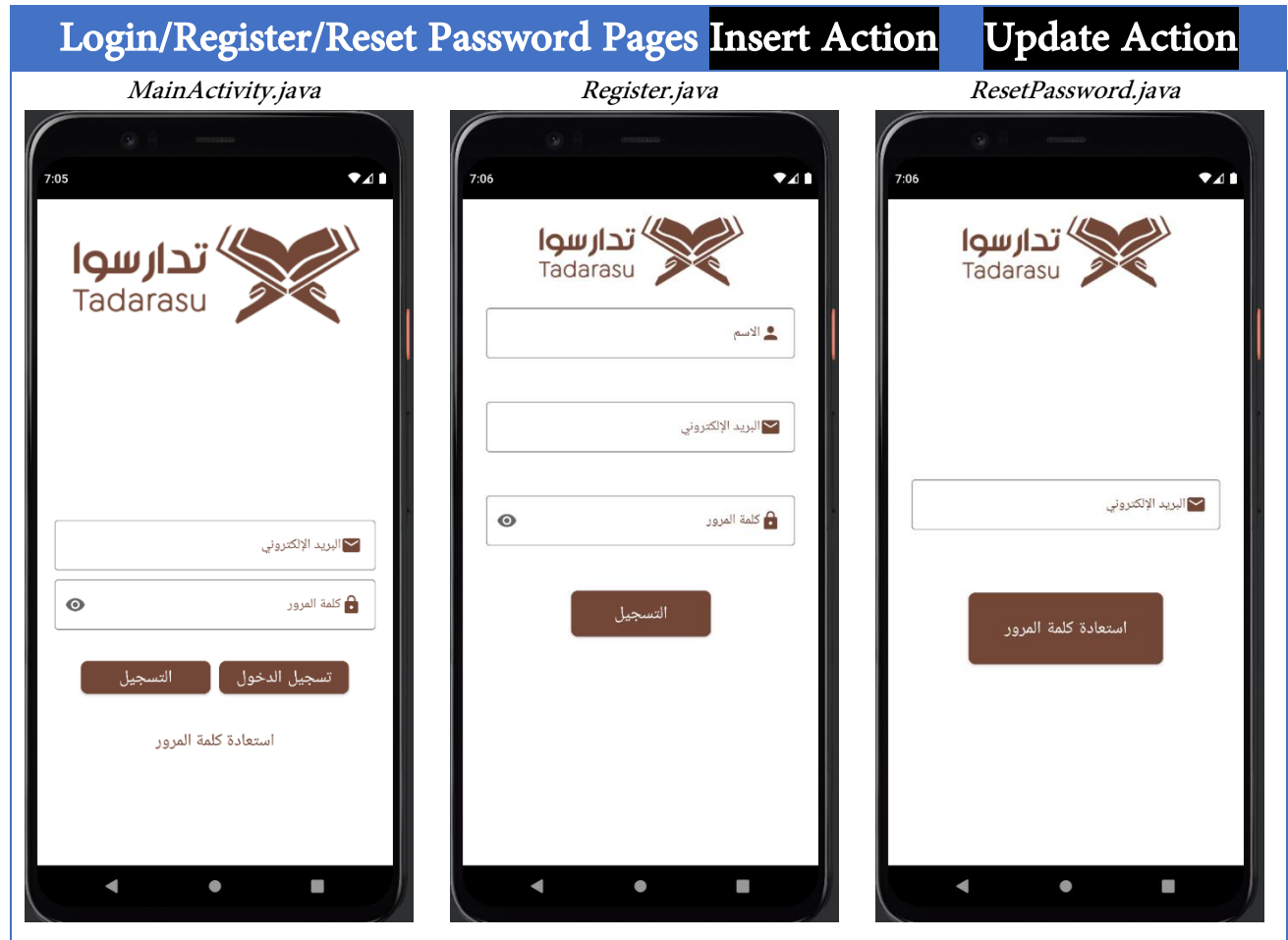
It is the page that displays content of all kinds (visual, audio, and written), and its properties are:

- 1- When adding visual content, the source must be YouTube, for several reasons:
  - a. Compatibility with all devices without any problems
  - b. Staying away from problems of property and intellectual rights, as YouTube monitors the clips and ensures that they are free of problems
- 2- When adding audio content, the source must be an mp3 file for the following reasons:
  - a. Compatibility with all devices without the need to apply additional applications that may annoy users with their advertisements
  - b. The lack of a sufficiently powerful platform to monitor intellectual property rights problems (such as YouTube in visual content)
- 3- The ability to add content to the Reading Later list through an icon located in the top bar of the page
- 4- There is a bar below the content that contains the following data:
  - a. The name of the sheikh who owns the original content
  - b. Tags that can be used to easily access relevant content
- 5- A comment system that allows users to discuss the published content

## Design and Codes

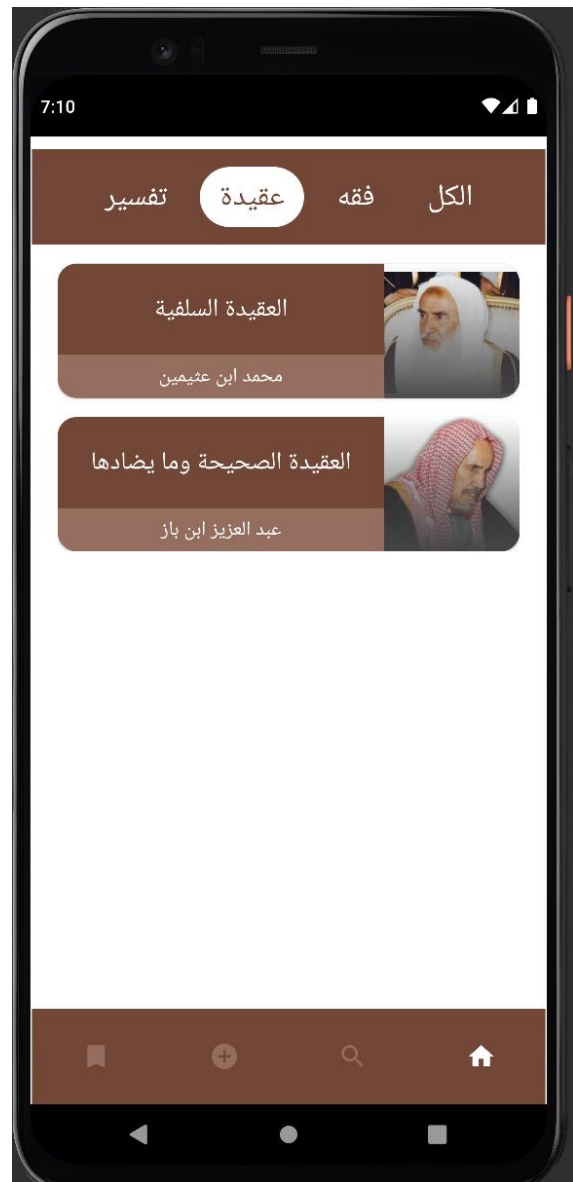
After we finished designing a prototype, we started copying the design into our app in Android Studio

This is the result after designing and programming all pages:





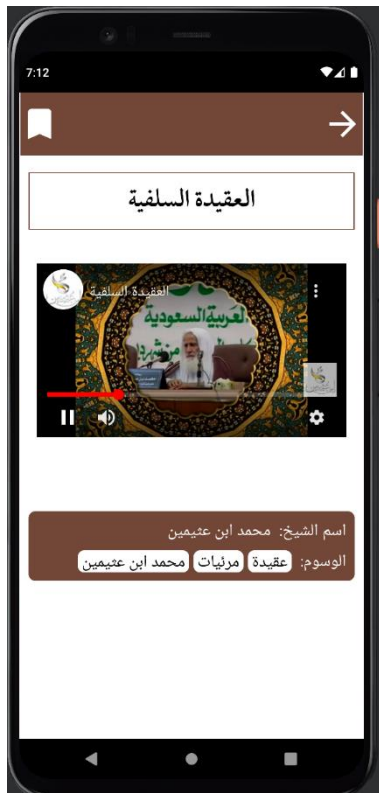
## Home Page (Home.java)





## Content Page (SingleContent.java) Insert Action Delete Action

Video Content



Sound Content



Article Content



## Add Content Page (AddContent.java) Insert Action



## Bookmarks Page (Bookmarks.java) Update Action Delete Action

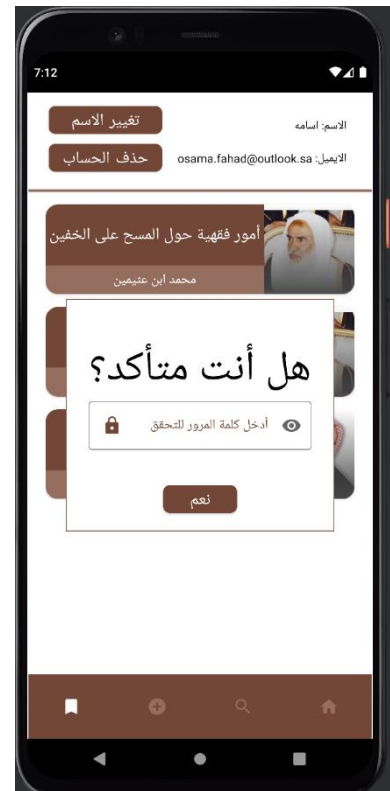
Bookmark's view & data personal



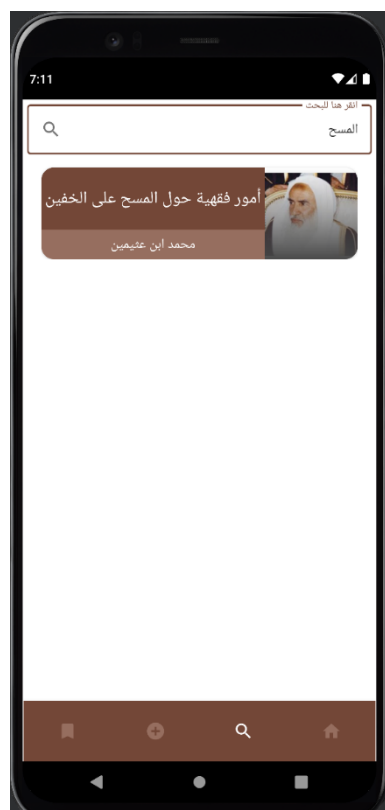
In click change name



In click delete account



## Search Page (Search.java)



## References:

- <https://www.figma.com/community/file/1087092786661212228>
- <https://www.figma.com/community/file/1006926488179586509>
- <https://www.figma.com/community/file/1061219180114211452>
- <https://www.figma.com/file/yc9o4p5SAc882LLNU5g5WV/project>
- <https://binbaz.org.sa/>
- <https://binothaimeen.net/site>
- <https://www.youtube.com/playlist?list=PLIW7Uli0gP7h2wwikTq5zMh8PoOQWhlpw>
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