**Research Plan for Authentication Code Library**

**Author: Auth\_code\_team\_5**

**Idea brief**: Creating an Authentication Code Library that houses (authentications codes) that caters to a wide range of users.

**Client:** Team Zuri

**Role:** Product Designer

**Research Background**

Overtime, it has been observed that there are sets of similar software solutions coming up while building different digital products. In order to enhance speed, allocate more resources and give allowance for developers to concentrate on unique product specific problems third party reusable authentication codes can be made available to them hence this research.

**Problem Statement**

Software developers are usually faced with the challenge of not meeting their target deadlines. It is believed that one of the causes of this could be attributed to paying much attention to problems that have an already established solution. On this note, we would be building a digital platform that houses some reusable authentication software, allowing developers to download and use in their various tasks.

**Research Objectives:**

1. To ascertain the level of acceptance among developers in using third-party authentication codes.
2. To establish the most convenient way of delivering authentication codes to developers.
3. To learn about any pain points developers are encountering during the process and what improvements are needed.
4. To discover users' motivation behind using third party authentication codes.
5. To determine how often software developers use third party authentication codes

**Method & Recruiting**

It will be a 20-30 minutes audio semi-structured interview to gather in-depth qualitative data. I will use the interview script as a guide and ask follow-up questions based on the answers from users.

There will be 5-10 participants including:

To recruit participants, we will reach out to people we know who make use of authentication code library e.g (Team members who are developer and also other developers from zuri slack channel, or our developer friends) via WhatsApp/Twitter/Slack/Instagram/Telegram/Facebook.

**Screener Questions**

1. Are you knowledgeable in the field of Software Engineering and Design?
2. Yes.
3. No (Screen Out)
4. Do you make use of third party codes ?
5. Very Often
6. Fairly
7. Not Really
8. Are you interested in using authentication code libraries?
9. Yes
10. No

**Timeline**

**Milestone 1**: Research and break down of data: th July 2022

**Milestone 2**: User journey and wireframes: th July 2022

**Milestone 3**: Hi-Fi Designs: th July 2022

**Milestone 4**: Prototype and Presentation of case study: st July 2022

**Interview Script**

Introduction

Hello and thank you for participating in this research study. We are **Project\_Team\_5** . We are working on a project that involves an Authentication Code Library. We would love to hear about your experience(s), so We will be asking you a series of questions.

This interview will last a maximum of thirty minutes. However, if you wish to take a break or leave, you are free to do so. Also, this interview is not a test of knowledge on any subject matter. There are no wrong answers so please feel free to express yourself.

Do you have any questions before we start?

**Research Questions**

1. What programming language do developers mainly use in developing authentication function in apps?
2. How often do developers use third party authentication codes?
3. Do you use authentication libraries?
4. What libraries have you used in the past?
5. What features are you familiar with?
6. What are the common errors you encounter?

**Interview Questions**

1. Would you rather choose to develop an authentication code from the scratch or use an already made code from a third-party platform? (Hint: the reason for asking this is to ascertain whether what we intend to design will even be accepted by our potential users)
2. What do you think can be the reason(s) why a developer may choose not to use a third party authentication code? (Hint: To ascertain the user pain points while sourcing for auth codes from third party platforms).
3. How would you want an auth code solution to be offered to you for easy accessibility and convenience of use? (Hint: To ascertain whether they need to download the codes, copy the codes, to be wrapped in a zip file upon download etc).
4. What challenges have you experienced while using auth codes from third party platforms?
5. What are your favorite features from these platforms?
6. What limitations do you experience while using the platforms?
7. Are there features you think the platforms should have that they currently don’t?

We appreciate this opportuinty, Thank you for giving us your time to help build a better product. If you have any questions,comments, or enquiries , please feel free to Email us [Auth\_wiki\_Team5@gmail.com](mailto:Auth_wiki_Team5@gmail.com) . Have a nice day.

**Kupenya**

1. Would you rather choose to develop an authentication code from the scratch or use an already made code from a third-party platform? (Hint: the reason for asking this is to ascertain whether what we intend to design will even be accepted by our potential users)

**Answe**r: ‘I would rather use an already made code from a third party platform, because it makes my work faster and easier’

1. What do you think can be the reason(s) why a developer may choose not to use a third party authentication codes? (Hint: To ascertain the user pain points while sourcing for auth codes from third party platforms).

**Answer**: ‘maybe the developer wants to write something original or cause some platforms are not open source, or maybe because of copyright infringement issues’.

1. How would you want an auth code solution to be offered to you for easy accessibility and convenience of use? (Hint: To ascertain whether they need to download the codes, copy the codes, to be wrapped in a zip file upon download etc).

**Answer**: ‘ I feel like I should be able to download the codes, so that I don't have to go to the site anytime I need it. The codes can be wrapped in a zip file, as long as I can download it’.

1. What challenges have you experienced while using auth codes from third party platforms?

**Answer**: ‘Sometimes, the descriptions are not very clear, for example, I could be looking for how to write a particular code, and even though there are codes available on the platform, I do not know what i’m supposed to do before that’  
(the process is not explained properly I guess?) **NB: solution could be showing samples of how it’ll work.  
The platform should explain the coding language the auth code works with. Basically it should give enough details.**

1. What are your favorite features from these platforms?

**Answer**: ‘I like that I can copy and paste, ask questions, someone can answer my questions. The fact that I know that I am not the only one that goes through these issues and people can comment to help solve the issues’

1. What limitations do you experience while using the platforms?

**Answer**: ‘ Not typing the right questions, for example, if i don’t ask my question in the way that it is stored, I won’t be able to get answers, so i’d have to keep reframing my questions till they pop up’

1. Are there features you think the platforms should have that they currently don’t?

**Answer**: ‘ they don’t have good UI, they should work on that’

**Jhargo**

**Research Questions**

1. What programming language do you use?

● Javascript, c#

1. Do you use authentication libraries?

● Yes

1. What libraries have you used in the past?

● React, jquery, angular material,boot-strap

1. What features are you familiar with?

● Reaction box, contribution panel

1. What are the common errors you encounter?

● Few syntax mistakes in the codes, but this is on very rare occasions

**Interview Questions**

1. Would you rather choose to develop an authentication code from the scratch or use an already made code from a third-party platform? (Hint: the reason for asking this is to ascertain whether what we intend to design will even be accepted by our potential users)

● Use an already made code

1. What do you think can be the reason(s) why a developer may choose not to use a third party authentication code? (Hint: To ascertain the user pain points while sourcing for auth codes from third party platforms).

● Most developers use a third party authentication code, if not all.

1. How would you want an auth code solution to be offered to you for easy accessibility and convenience of use? (Hint: To ascertain whether they need to download the codes, copy the codes, to be wrapped in a zip file upon download etc).

● Text or zipped is fine

1. What challenges have you experienced while using auth codes from third party platforms?

● Simplicity and understanding.

● Implementation can be somewhat tasking for beginners

1. What are your favorite features from these platforms?

● User friendly

1. What limitations do you experience while using the platforms?

● None for now

1. Are there features you think the platforms should have that they currently don’t?

● None for now

**JESSE**

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2. To establish the most convenient way of delivering authentication codes to developers.

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4. To discover users motivation behind using authentication code library.

5. How often they use authentication code library.

Screener Questions

1. Are you a developer?

Yes I am a developer.

2. Do you make use of code libraries?

Yes I use multiple code libraries.

3. Are you interested in using authentication code libraries?

Yes I am interested.

Research Questions

1. What programming language do you use?

I use the PHP programming language.

2. Do you use authentication libraries?

No, I currently write my own authentication code.

3. What libraries have you used in the past?

I have used the PHP swiftmailer library.

4. What features are you familiar with?

Object oriented approach for sending mail.

5. What are the common errors you encounter?

Having to rewrite code most of the time.

Interview Questions

1. Would you rather choose to develop an authentication code from the scratch or use an already made code from a third-party platform? (Hint: the reason for asking this is to ascertain whether what we intend to design will even be accepted by our potential users)

**Answer:** I would rather use an already made authentication code to save on time.

2. What do you think can be the reason(s) why a developer may choose not to use a third party authentication codes? (Hint: To ascertain the user pain points while sourcing for auth codes from third party platforms).

**Answer:** Lack of trust in the third party because the code may have security flaws.

3. How would you want an auth code solution to be offered to you for easy accessibility and convenience of use? (Hint: To ascertain whether they need to download the codes, copy the codes, to be wrapped in a zip file upon download etc.).

**Answer:** I should have the ability to either copy or download the authentication codes.

4. What challenges have you experienced while using auth codes from third party platforms?

**Answer:** Use of functions and keywords that are deprecated.

5. What are your favorite features from these platforms?

**Answer:** Ability to copy or download the files.

6. What limitations do you experience while using the platforms?

**Answer:** Very poor and traditional interface.

7. Are there features you think the platforms should have that they currently don’t?

**Answer:** Ability to contribute, comment and react on the platform.

**Ayomide**

Research Objectives:

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3. To learn about any pain points developers are encountering during the process and what improvement are needed.

4. To discover users motivation behind using authentication code library.

5. How often they use authentication code library.

Screener Questions

1. Are you a developer? Yes, I am.

2. Do you make use of code libraries?

3. Are you interested in using authentication code libraries? Yes

Research Questions

1. What programming language do you use? HTML, CSS & javascript

2. Do you use authentication libraries? This will be my project implementing auth codes.

3. What libraries have you used in the past? I’m familiar with Passportjs.org, auth0.com.

4. What features are you familiar with? Signing in with google, github etc, diverse auth codes on one platform, lightweight codes.

5. What are the common errors you encounter? -

Interview Questions

1. Would you rather choose to develop an authentication code from the scratch or use an already made code from a third-party platform? (Hint: the reason for asking this is to ascertain whether what we intend to design will even be accepted by our potential users)

I’d rather use one generated by a third party platform.

2. What do you think can be the reason(s) why a developer may choose not to use a third party authentication codes? (Hint: To ascertain the user pain points while sourcing for auth codes from third party platforms).

Codes may include errors. It may not be compatible with a particular project.

3. How would you want an auth code solution to be offered to you for easy accessibility and convenience of use? (Hint: To ascertain whether they need to download the codes, copy the codes, to be wrapped in a zip file upon download etc).

I’d prefer being able to copy the codes as it is faster and easier to use

4. What challenges have you experienced while using auth codes from third party platforms?

None

5. What are your favorite features from these platforms?

Being able to use the search button to look for a particular code.

6. What limitations do you experience while using the platforms?

Some libraries are not free to use.

7. Are there features you think the platforms should have that they currently don’t?

No

**Folasanmi George**

Research Questions

1. What programming language do you use?

I use HTML.

2. Do you use authentication libraries?

Yes i do.

3. What libraries have you used in the past?

I have used google authentication library.

4. What features are you familiar with?

Scanning QR Codes so as to connect whatever account with the authenticator.

5. What are the common errors you encounter?

Problem having a new account/website using a set up code option provided.

**Interview Questions and Answers:**

1. Would you rather choose to develop an authentication code from the scratch or use an already made code from a third-party platform? (Hint: the reason for asking this is to ascertain whether what we intend to design will even be accepted by our potential users)

Answer: I prefer using a 3rd party platform.

2. What do you think can be the reason(s) why a developer may choose not to use a third party authentication codes? (Hint: To ascertain the user pain points while sourcing for auth codes from third party platforms).

Answer: For security reasons.

3. How would you want an auth code solution to be offered to you for easy accessibility and convenience of use? (Hint: To ascertain whether they need to download the codes, copy the codes, to be wrapped in a zip file upon download etc).

Answer: I should be able to to be given the opportunity to download the codes for easy usage.

4. What challenges have you experienced while using auth codes from third party platforms?

Answer: One of the challenges I have faced is that authentication codes expire in less than a minute.

5. What are your favorite features from these platforms?

Answer: FAQ section to be able to ask questions and get solutions.

6. What limitations do you experience while using the platforms?

Answer: Not being able to backup.

7. Are there features you think the platforms should have that they currently don’t?

Answer: Nil

Oluwafemi Seun

Research Questions

1. What programming language do you use?

I use JavaScript

2. Do you use authentication libraries?

Yes I do.

3. What libraries have you used in the past?

I have used google authenticatior and firebase library.

4. What features are you familiar with?

Scanning QR Codes so as to connect whatever account with the authenticator.

5. What are the common errors you encounter?

Problem having a new account/website using a set up code option provided.

**Interview Questions and Answers:**

1. Would you rather choose to develop an authentication code from the scratch or use an already made code from a third-party platform? (Hint: the reason for asking this is to ascertain whether what we intend to design will even be accepted by our potential users)

Answer: I prefer using a 3rd party platform.

2. What do you think can be the reason(s) why a developer may choose not to use a third party authentication codes? (Hint: To ascertain the user pain points while sourcing for auth codes from third party platforms).

Answer: On request, if the company I’m working for instructs me to make use of an in-house code.

3. How would you want an auth code solution to be offered to you for easy accessibility and convenience of use? (Hint: To ascertain whether they need to download the codes, copy the codes, to be wrapped in a zip file upon download etc).

Answer: Google Authenticator standard.

4. What challenges have you experienced while using auth codes from third party platforms?

Answer: One of the challenges I have faced is that authentication codes is understanding documentation.

5. What are your favorite features from these platforms?

Answer: Scanning of a QR code.

6. What limitations do you experience while using the platforms?

Answer: Nil

7. Are there features you think the platforms should have that they currently don’t?

Answer: A better UI experience.

**Interview carried out by Stella**

**Participant 1: SAHEED**

Interview Questions and answers

What programming language do you use?\*

Rubby and javascript

Would you rather choose to develop an authentication code from the scratch or use an already made code from a third-party platform?

An already made code from an existing platform

At what point did you prefer using third party platform for your authentication codes? (share a brief experience).\*

At a point when I need to enable two factor authentication for any of my accounts.

What do you think can be the reason(s) why a developer may choose not to use a third party authentication code?

\*Security?

What challenges have you experienced while using authentication codes from third party platforms?

\*Time sync. Google auth for example once required me to navigate to settings and sync my device's time with Google servers before it worked correctly

What are your favorite features from these platforms?

\*copy paste click and dark theme

What limitations do you experience while using the platforms?

\*none I can remember

How would you want an authentication code solution to be offered to you for easy accessibility and convenience of use?

maybe an option for text or whatsapp delivery

Give example(s) of authentication code library you have used bef

authy

**Participant 2**: WALE

What programming language do you use?\*

Php/Node

Would you rather choose to develop an authentication code from the scratch or use an already made code from a third-party platform?

develop from scratch

At what point did you prefer using a third party platform for your authentication codes? (share a brief experience).\*

Well, if i need to implement something very fast without so much modifications

What do you think can be the reason(s) why a developer may choose not to use a third party authentication code?

Ownership, and use case very specific to the product

What challenges have you experienced while using authentication codes from third party platforms?

\*Poor support from creators

What are your favorite features from these platforms?

\*oauth

What limitations do you experience while using the platforms?

\*nil so far

How would you want an authentication code solution to be offered to you for easy accessibility and convenience of use?

Easy to understand documentation

Give example(s) of authentication code library you have used bef

Firebase Authentication

**Participant 3:** TEMITOPE

What programming language do you use?\*

Javascript

Would you rather choose to develop an authentication code from the scratch or use an already made code from a third-party platform?

use an already made code from third party

At what point did you prefer using a third party platform for your authentication codes? (share a brief experience).\*

mostly when i want to authenticate a user after signing up for an account on a website. Authentication also might be done when checking out to make a payment with their card

What do you think can be the reason(s) why a developer may choose not to use a third party authentication code?

maybe they want to build their own personal authentication pattern to add to their experience or showcase their skills

- The authentication they found isn't working the way they want it to work or not serving the purpose they want to use it for

What challenges have you experienced while using authentication codes from third party platforms?

\*release of a new version affects the previous version, sometimes making a variable deprecated.

What are your favorite features from these platforms?

easy to read documentation and it's implementation

What limitations do you experience while using the platforms?

\*none for now

How would you want an authentication code solution to be offered to you for easy accessibility and convenience of use?

proper documentation

Give example(s) of authentication code library you have used bef

JWT Auth.

**Participant 4:** AYOMIDE

What programming language do you use?\*

Javascript

Would you rather choose to develop an authentication code from the scratch or use an already made code from a third-party platform?

From Scratch

At what point did you prefer using a third party platform for your authentication codes? (share a brief experience).\*

Time Constraints - when deadline is near and much is still needed to be done

What do you think can be the reason(s) why a developer may choose not to use a third party authentication code?

For flexibility

What challenges have you experienced while using authentication codes from third party platforms?

\*Proper documentation

What are your favorite features from these platforms?

asynchronous rendering

What limitations do you experience while using the platforms?

\*Proper documentation/flexibility

How would you want an authentication code solution to be offered to you for easy accessibility and convenience of use?

Delivered through a cdn/with extra security in place

Give example(s) of authentication code library you have used before

OAuth

**Participant 5**

**Interview Questions**

1. What programming language do you use?

Answer: I use DART by google

1. Would you rather choose to develop an authentication code from the scratch or use an already made code from a third-party platform?

Answer: I’d rather use a third party platform

1. At what point did you prefer using a third party platform for your authentication codes? (share a brief experience).

Answer: I never really started creating from scratch, I’ve always used from third party platform.

1. What do you think can be the reason(s) why a developer may choose not to use a third party authentication code?

Answer: Security, not knowing the developers behind it, how is the encryption? How easily can it be integrated?

1. What challenges have you experienced while using authentication codes from third party platforms?

Answer: I haven’t experienced any challenges

1. What are your favorite features from these platforms?

Answer: With firebase, you can get the most secure authentication with just a line of code.

1. What limitations do you experience while using the platforms?

Answer: Doesn’t provide tokens, you’d need tokens to monitor what goes on in an application.

1. How would you want an authentication code solution to be offered to you for easy accessibility and convenience of use?

Answer: Flexibility, good servers, provide security, easy integration.

1. Give example(s) of authentication code library you have used before

Answer: Firebase

**Participant 5**

**Interview questions**

1. What programming language do you use?

Answer: Javascript

1. Would you rather choose to develop an authentication code from the scratch or use an already made code from a third-party platform?

Answer: I’d use a platform cause developing from scratch mine take a lot of time

1. At what point did you prefer using a third party platform for your authentication codes? (share a brief experience).

Answer: It’s faster and easier, i’ve not tried doing it from scratch

1. What do you think can be the reason(s) why a developer may choose not to use a third party authentication code?

Answer: people who work in big tech companies will prefer to develop theirs from scratch for license purposes etc.

1. What challenges have you experienced while using authentication codes from third party platforms?

Answer: The documentation is not explanatory

1. What are your favorite features from these platforms?

Answer: being able to test out the codes and see how it’ll look like before using it, being able to edit it and see how it looks

1. What limitations do you experience while using the platforms?

Answer: not being able to change anything in the codes

1. How would you want an authentication code solution to be offered to you for easy accessibility and convenience of use?

Answer: have a comment section, rating codes

1. Give example(s) of authentication code library you have used before

Answer: oauth