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SCIENTIFIC COMPUTING
DEPARTMENT OF SOFTWARE ENGINEERING

TAX PAYMENT SYSTEM

System Requirements Specification

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Document Approval

The following Software Requirements Specification has been accepted and approved by:

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Acronyms

CSS: Cascading Style Sheet

EFTPS: The Electronic Federal Tax Payment System

ERCA: Ethiopian Revenue and Custom Authority

HTML: Hyper Text Mark-up Language

PHP: Hyper Text Pre-processor

USA: United States of America

WWW: World Wide Web

DECLARATION

We declare that this written submission represents our ideas in our own words and where others' ideas or words have been included, we have adequately cited and referenced the original sources. We also declare that we have adhered to all principles of academic honesty and integrity and have not misrepresented, fabricated or falsified any idea, data, fact or source in our submission. We understand that any violation of the above will be cause for disciplinary action by the Institute and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when needed.

Team Four April 2018

1 Introduction

1.1 Purpose

The purpose of this document is to give a detailed description of the requirements for the “tax payment” software. It will illustrate the purpose and complete declaration for the development of system. It will also explain system constraints, interface and interactions with other external applications. This document is primarily intended to be proposed to a customer for its approval and a reference for developing the system for the development team and will be proposed to the project advisors for its approval.

1.2 Scope

The tax payment system delivers all the information needed from the tax payer to the agency by submitting the registry form filled by the tax payer when registering to the system. Provides a list of tax payer with their filled information by alphabetical order on the back end. Enables the agency to send a confirmation message to the tax payer for payment done by the tax payer and a warning letter as well for the tax payer.

As for the user the system provides a log in form with user name and password whenever any tax payer wants to get to his/her account. Enables the tax payer to upload photos and edit his/her profile information and photo when needed. Notifies the tax payer when is the time for paying his/her tax on the notification section. Enables the tax payer to appeal to the agency whenever he/she thinks that the tax levied on him/her is not fair or has any other problems. Enables the tax payer to store all his documents and recites in the form of images or pdf formats.

Furthermore, the software updates the tax payer on any new news from the agency on the news feed section. Enables the tax payer to receive and view his/her message from the agency.

1.3 Overview

The remainder of this document includes three sections and appendixes. The first section provides an overview of the system functionality and system interaction with other systems. This chapter also introduces different types of stakeholders and their interaction with the system. Further, the section also mentions the system constraints and assumptions about the product.

The second section provides the requirements specification in detailed terms and a description of the different system interfaces. Different specification techniques are used in order to specify the requirements more precisely for different audiences.

The third section deals with the prioritization of the requirements. It includes a motivation for the chosen prioritization methods and discusses why other alternatives were not chosen.

The Appendixes in the end of the document include the all results of the requirement prioritization and a release plan based on them.

2. General Description

2.1 Product Perspective

Almost all countries on the world use online tax payment system. Developed countries like USA (United States of America). Each have their own online tax payment system. In case of USA, EFTPS (The Electronic Federal Tax Payment System) is a service provided freely by the USA department of treasure. After one have enrolled and receive one's credentials one can pay the federal taxes electronically using EFTPS voice response system.

There are also some systems that are for specific taxes. The Indian e-payment system 'parivahan' is an online payment system for vehicles registered in different states of the country. The owner of these vehicles can log onto the portal from any internet access point and deposit their due taxes through net banking facility. Once the user logs on to the system and provides the required information about the vehicles, the software calculates and displays the tax amount payable. If the user accepts to make the payment, the portal redirect him to selected bank's internet banking site. The user then makes the makes the payment from his bank account through secure internet banking. Once the transaction is complete the system generates a detailed receipt, which can be printed by the user for his record.

For checking the authenticity of the receipt, the transport department officials will be able to cross-check the payment details by logging on to the portal using this web based software.

Despite the fact that it is only for vehicles and redirects to online banking site, the parivahan web site has many similarities with the tax payment system we are going to developed in many ways.

The tax payment system to be developed is a web based online tax paying system to pay tax online. Ethiopia so far been using the manual system to collect tax. Even though there is a plan to change it to online system as the ERCA (Ethiopian Revenue and Customs Authority) announced on April, 2016 it is still working manually.

Most available tax payment systems including the above EFTPS are mobile applications also use other technologies like voice activation. But our tax payment system is a web-based application. The system that used all over the world are mostly successful and satisfying. Even though our system is not a mobile application we will try to let Ethiopian tax payers pay tax without being present at tax stations by providing this system.

2.2 Product Functions

After this system is fully developed and implemented tax payers will be able to pay their tax using this system by the time payment have been announced. The payers can see the amount levied on them and pay the money to the nearest bank accordingly. After making the transaction they ought to attach the receipt to the system. Payers are also able to address compliment to the Authority.

The tax officer will be able to manage the process of the taxation though the system and announce any news possibly existing. Also view and responding to the compliments aroused by the payers.

2.3 User Characteristics

A slight experience of computer usage is necessary to operate the software properly. Each employee in tax payment office have been already using computer for other tasks, which makes usage of the new software much simpler. Generally, an employee can master the software after a short training session for about half a day.

In the case of customers who use this software a simple guideline will be prepared to show every step needed to use the software. The authority will take the rest responsibility in creating awareness and publishing and distributing contents of the guideline.

2.4 General constraints

While developing the system, the constraints listed below may limit the functions from full implementation.

- **Infrastructure constraint** – limited bandwidth of the internet in the country and blockades that are implemented by the government may hinder the system from serving the users at all times.
- **Language constraint** – the system will be developed in English language. This might pose a problem related to the full understanding of the users though there are things proposed to soothe the problem.

2.5 Assumptions and Dependencies

A basic knowledge of using a website and also understanding of the basic reading and writing skill of English language is an assumption considered while developing the product.

There should be an internet connection in the office for the system to function.

It is assumed that the computers in the office should have a browser application installed and it should support HTML5, CSS3 and JavaScript.

3. Specific Requirements

3.1 External Interface Requirements

3.1.1 User Interfaces

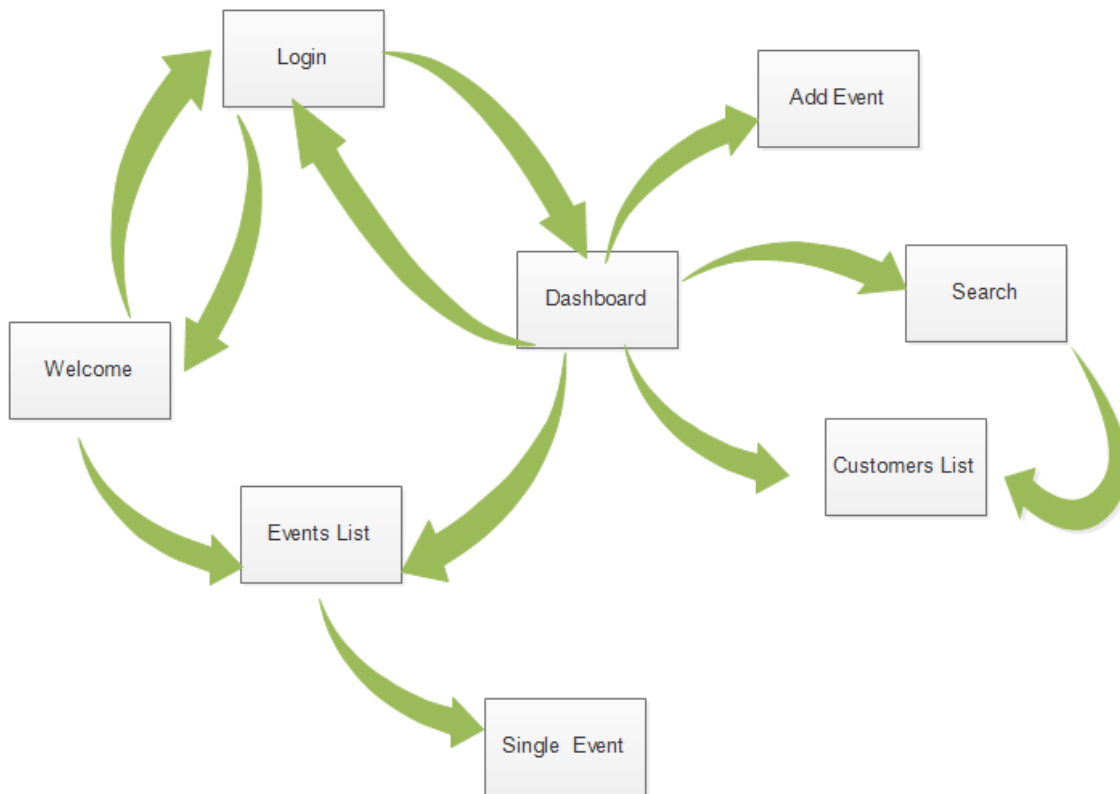


Figure 1 Flow Diagram 1

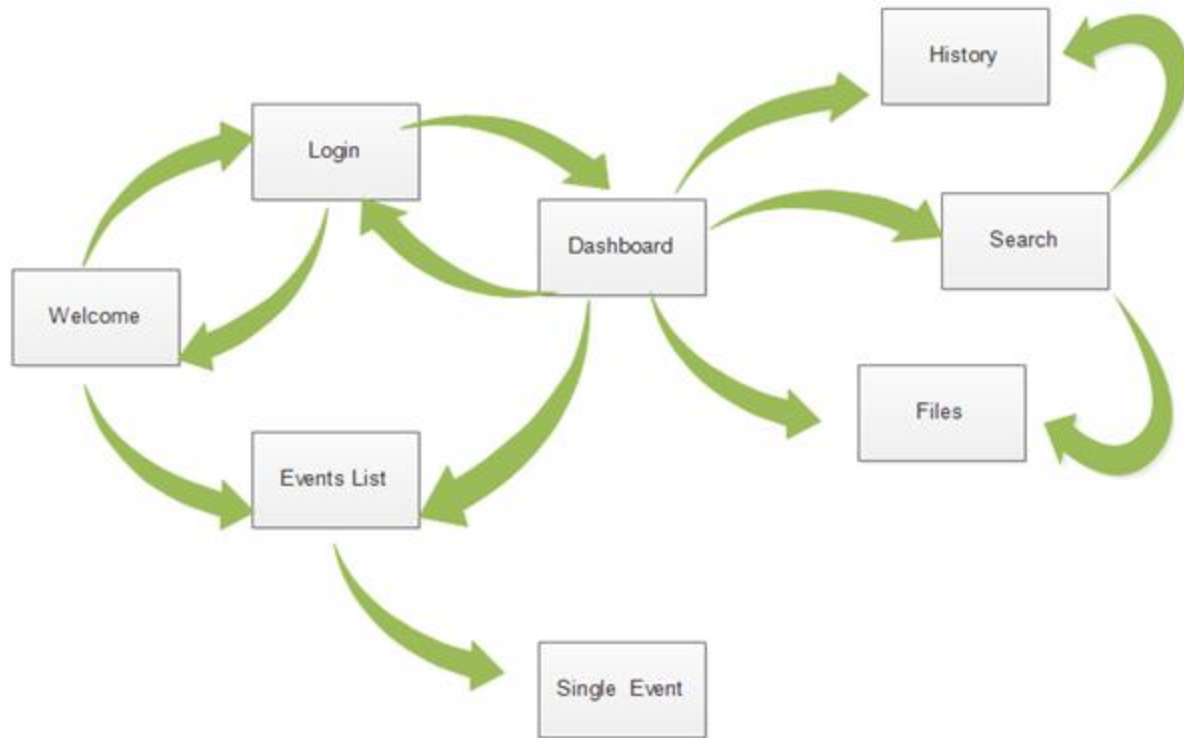
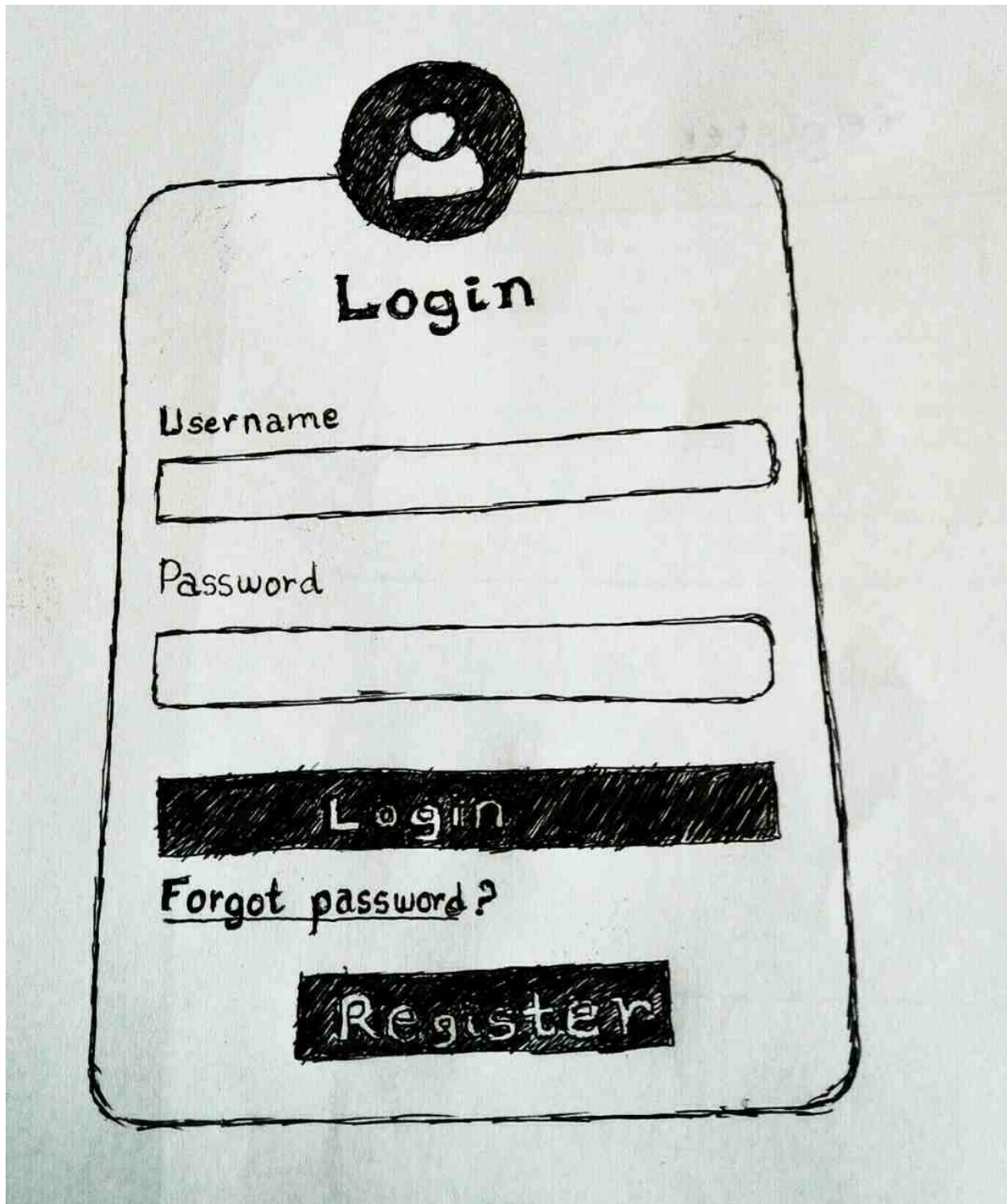


Figure 2 Flow Diagram 2

Register

☒

Figure 3 Register Page



A hand-drawn sketch of a login form on a piece of paper. At the top center is a circular icon containing a simplified human figure. Below the icon, the word "Login" is written in a bold, sans-serif font. Underneath "Login" are two horizontal input fields. The first field is preceded by the label "Username" and the second by "Password". Below the second input field is a dark, rectangular button with the word "Login" written in white. Underneath this button is the text "Forgot password?". At the bottom of the form is another dark, rectangular button with the word "Register" written in white. The entire form is enclosed in a hand-drawn rectangular border with rounded corners.

Figure 4 Log in Page

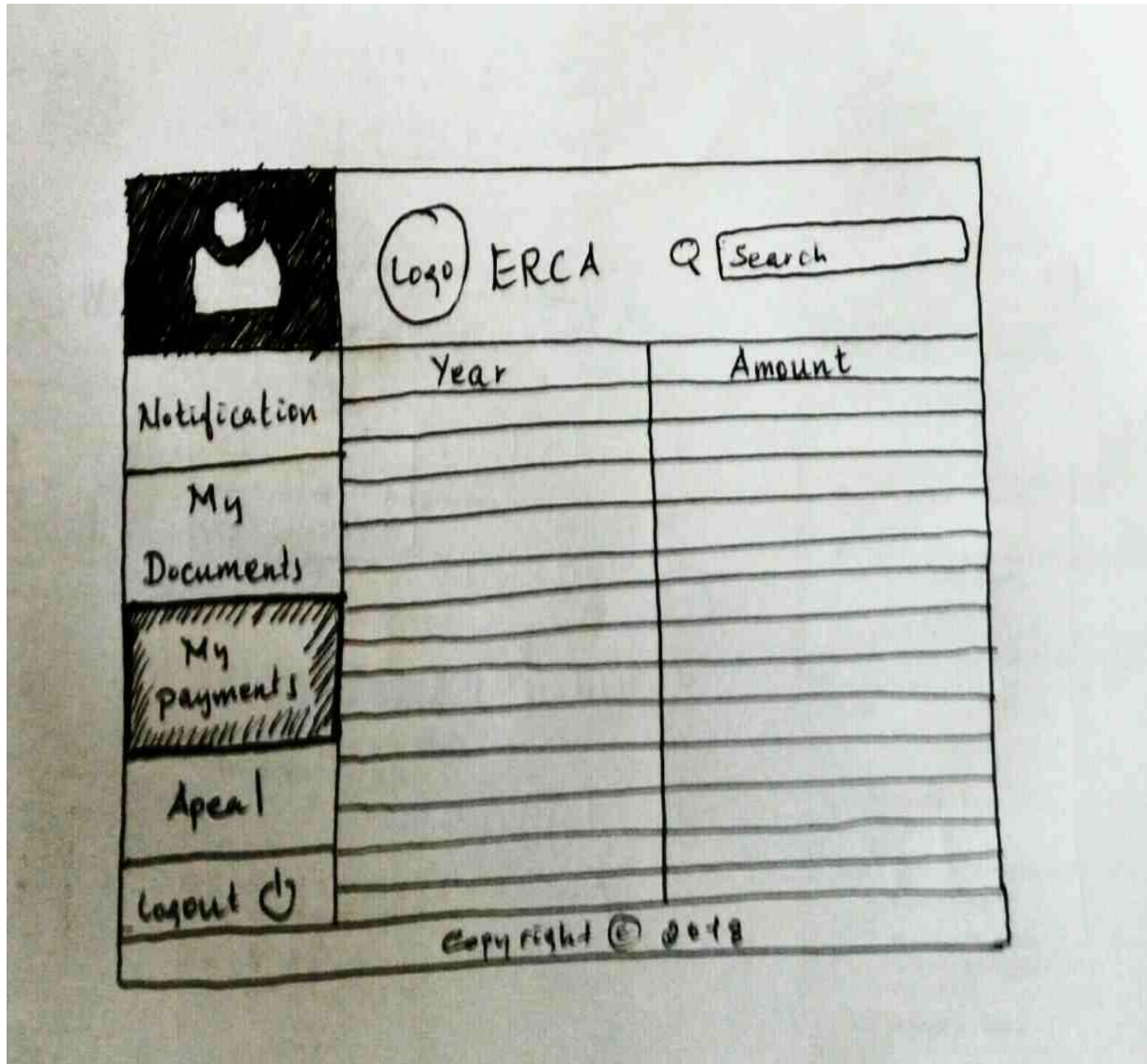


Figure 5 Payment Page

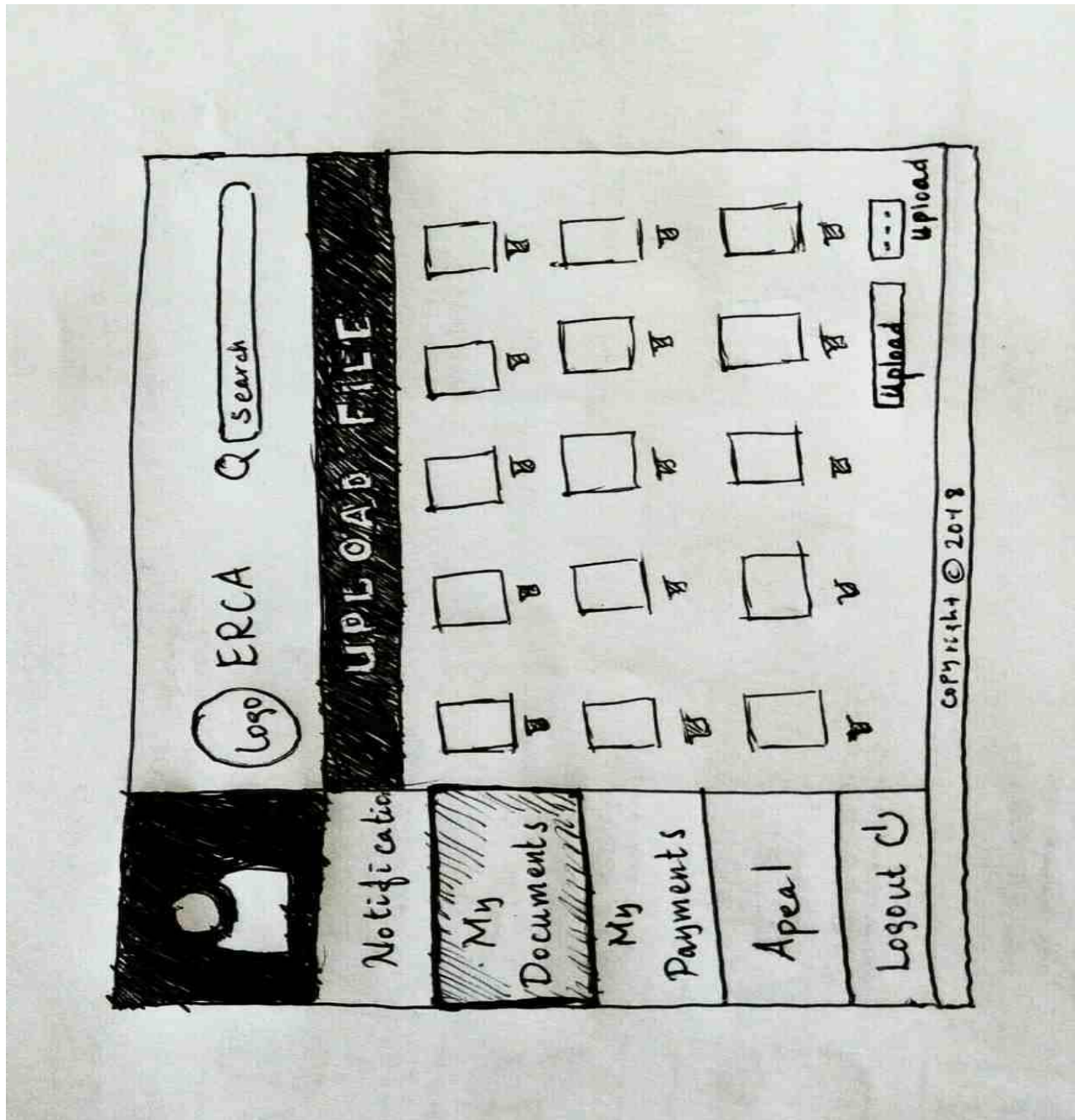


Figure 6 Upload File

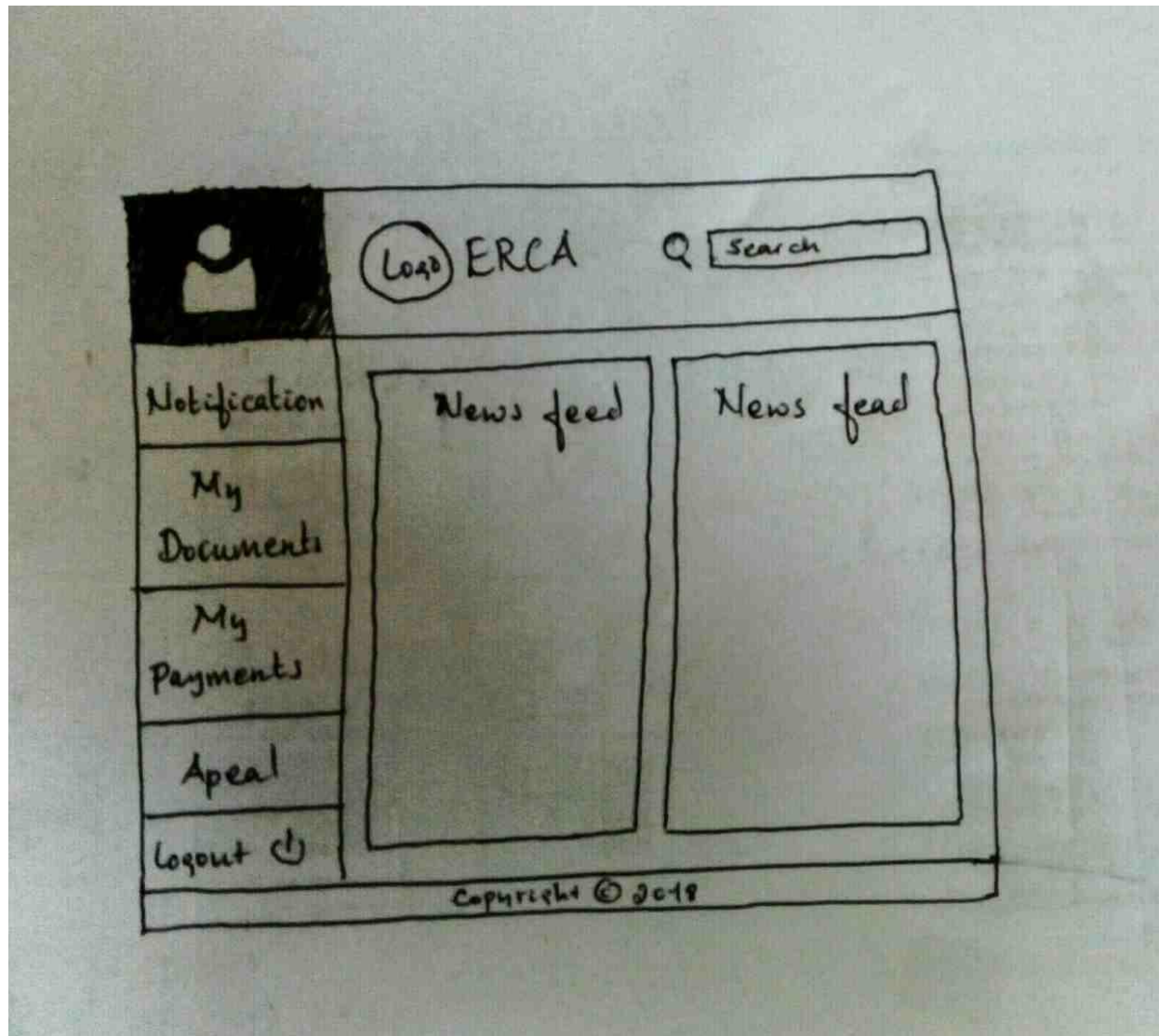


Figure 7 Home Page

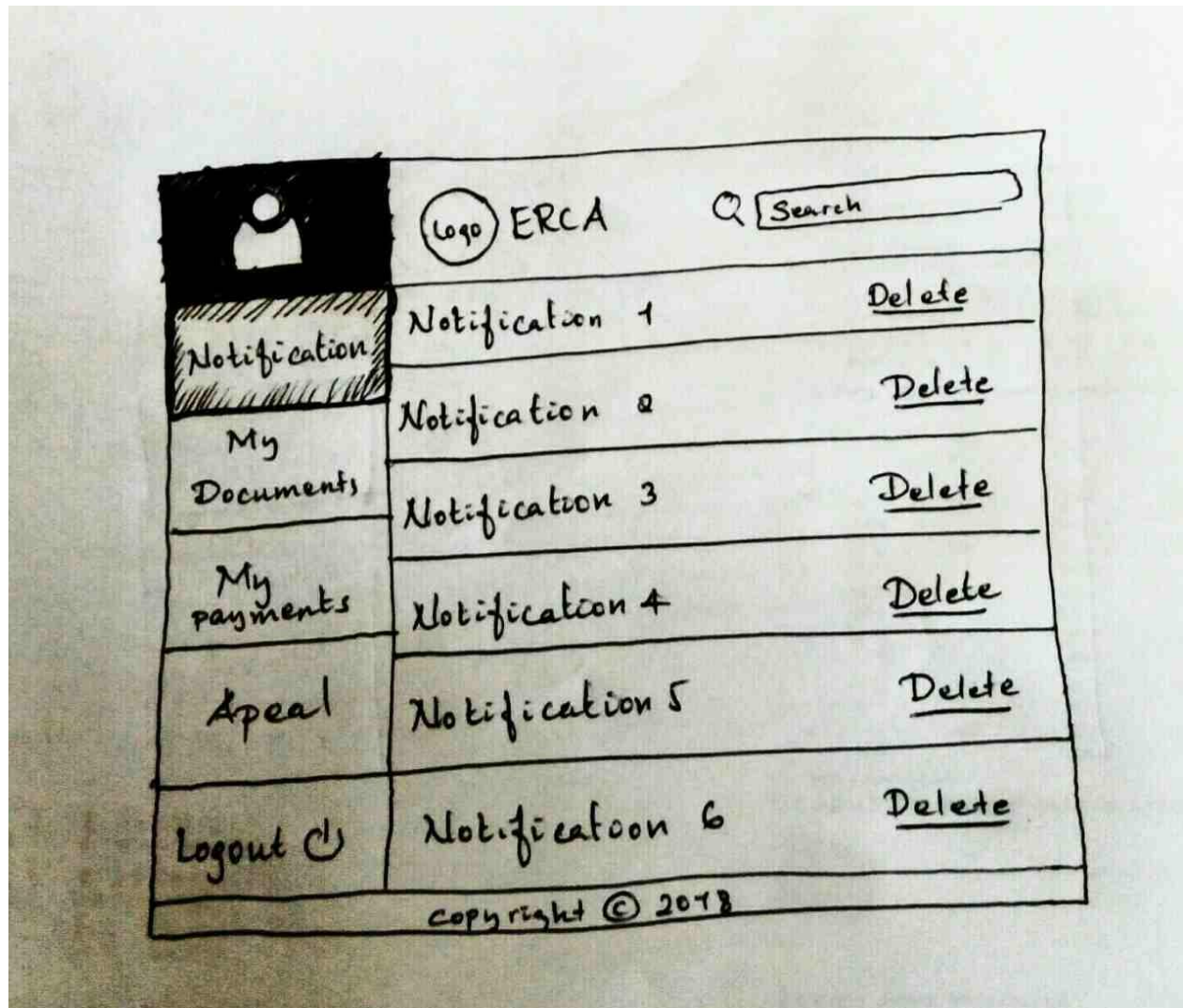


Figure 8 Notification Page

Logo ERCA Q Search

Subject: []

Body: []

Send

Notification My Documents My Payments Appeal Logout

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Figure 9 Appeal Page

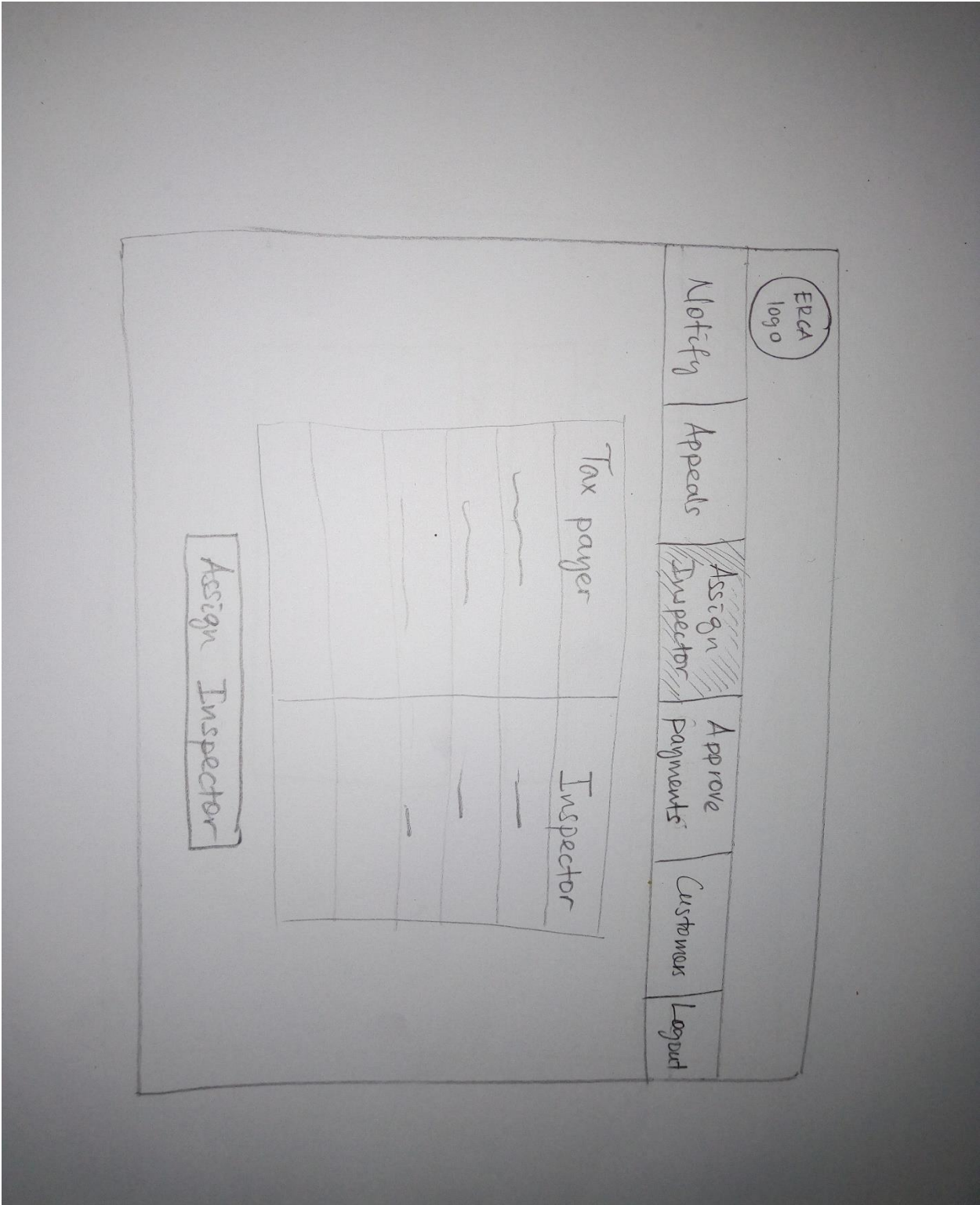


Figure 10 Assign Inspector

The image shows a hand-drawn wireframe of a web page titled 'Notify'. The page layout includes a header section at the top with a logo 'EPCA 1090' on the left and a navigation menu on the right. The navigation menu contains the following items: 'Notify', 'Appeals', 'Assign Inspector', 'Approve Payment', 'Customers', and 'Logout'. The main body of the page is divided into two primary sections. The first section is labeled 'Title' and contains a single-line text input field. The second section is labeled 'Content' and contains a large, multi-line text area. At the bottom of the main content area, there is a button labeled 'Notify'.

Figure 11 Notify Page

3.1.2 Hardware Interfaces

The system requires no external hardware as long as a user is able to browse through a mobile phone

3.1.3 Software Interfaces

Since the system is intended as a web-based system, it is dependent on specifications of the device the user uses to access it. The browser should be able to run JavaScript and should support HTML5 as well.

3.1.3 Communication Interfaces

The system will use the internet protocol hyper-text transfer protocol (HTTP) as for all communications over the internet.

3.2 Functional requirements

Table 1 FR 01

ID	FR 01
Name	Upload Files
Summary	The system shall allow taxpayer keeps record of his/her files
Description	The user will be provided with an option to take record of his files in a different file formats
Dependency	None
Reference	UC 01

Table 2 FR 02

ID	FR 02
Name	Approve Payment
Summary	An employee should be able to approve a taxpayer paid tax

Description	An authorized person selects a taxpayer from a list and mark him/her as paid and the system register the taxpayer as paid status
Dependency	FR 05
Reference	UC 05

Table 3 FR 03

ID	FR 03
Name	Notify
Summary	Employee should be able to notify news and updates
Description	The user will be notified of new policies and other tax related issues, and amount of tax levied for the year.
Dependency	None
Reference	UC 07

Table 4 FR 04

ID	FR 04
Name	Add Event
Summary	Employee should be able to add event list
Description	An authorized person will fill all the necessary information about a notification or update events then post it to the users.
Dependency	None
	UC 14

Table 5 FR 05

ID	FR 05
Name	View Taxpayer
Summary	The system shall display taxpayers list.
Description	Employee navigates to view taxpayers' page. The system displays the list of all registered taxpayers.
Dependency	FR 10
Reference	UC 11

Table 6 FR 06

ID	FR 06
Name	Appeal
Summary	The system shall allow taxpayers present their appeal on the levied tax
Description	If the users do not agree with the amount of tax levied on them the will presented their appeal and wait for response from the authority.
Dependency	None
Reference	UC 02

Table 7 FR 07

ID	FR 07
Name	Upload Files
Summary	The system shall allow taxpayer keeps record of his/her files

Description	The user will be provided with an option to take record of his files in a different file formats
Dependency	None
Reference	UC 01

Table 8 FR 08

ID	FR 08
Name	Reply Appeals
Summary	The system should provide a view of appeals from tax payers .
Description	The system will allow authorized tax officer to view details of appeals from tax payers and respond accordingly.
Dependency	None
Reference	UC 06

Table 9 FR 09

ID	FR 09
Name	View files
Summary	The system shall allow taxpayers view their uploaded files

Description	After the user logs in to his/her account and select the choice to view documents and the system will provide a list of all uploaded files.
Dependency	FR 10
Reference	UC 03

Table 10 FR 10

ID	FR 10
Name	Search
Summary	The system shall allow searching of files and news
Description	User enters a keyword on the field and click search. The system searches for result and display.
Dependency	None
Reference	UC 12

Table 11 FR 11

ID	FR 11
Name	Register Taxpayer
Summary	The system shall provide taxpayer registration field.

Description	Employee fills all the required information about a taxpayer and submit. System validates and save it.
Dependency	None
Reference	UC 13

Table 12 FR 12

ID	FR 12
Name	Add Employee
Summary	The system shall provide employee registration field.
Description	Employee fills all the required information about an employee and submit. System validates and save it.
Dependency	
Reference	UC 08

Table 13 FR 13

ID	FR 13
Name	Remove Employee
Summary	The system shall provide an option to remove an employee.

Description	Employee search and select an employee and press the remove option. The system removes the employee from the database.
Dependency	FR 05
Reference	UC 09

Table 14 FR 14

ID	FR 14
Name	View Payment
Summary	The system shall provide an option to display taxpayer's payment record
Description	Taxpayer select view payment choice. The system displays payment history
Dependency	
Reference	UC 04

3.3 Use Case

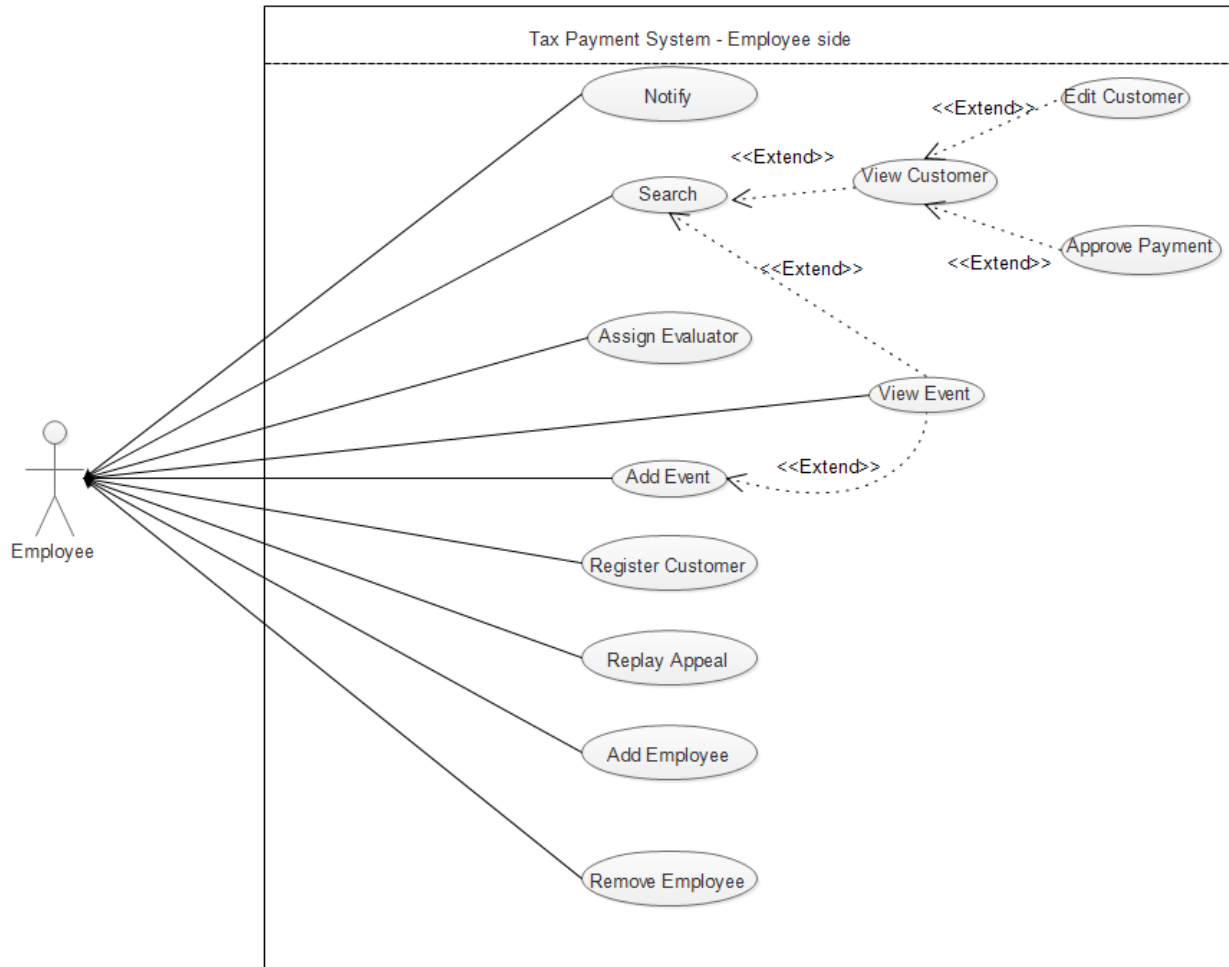


Figure 12: Use case diagram 1

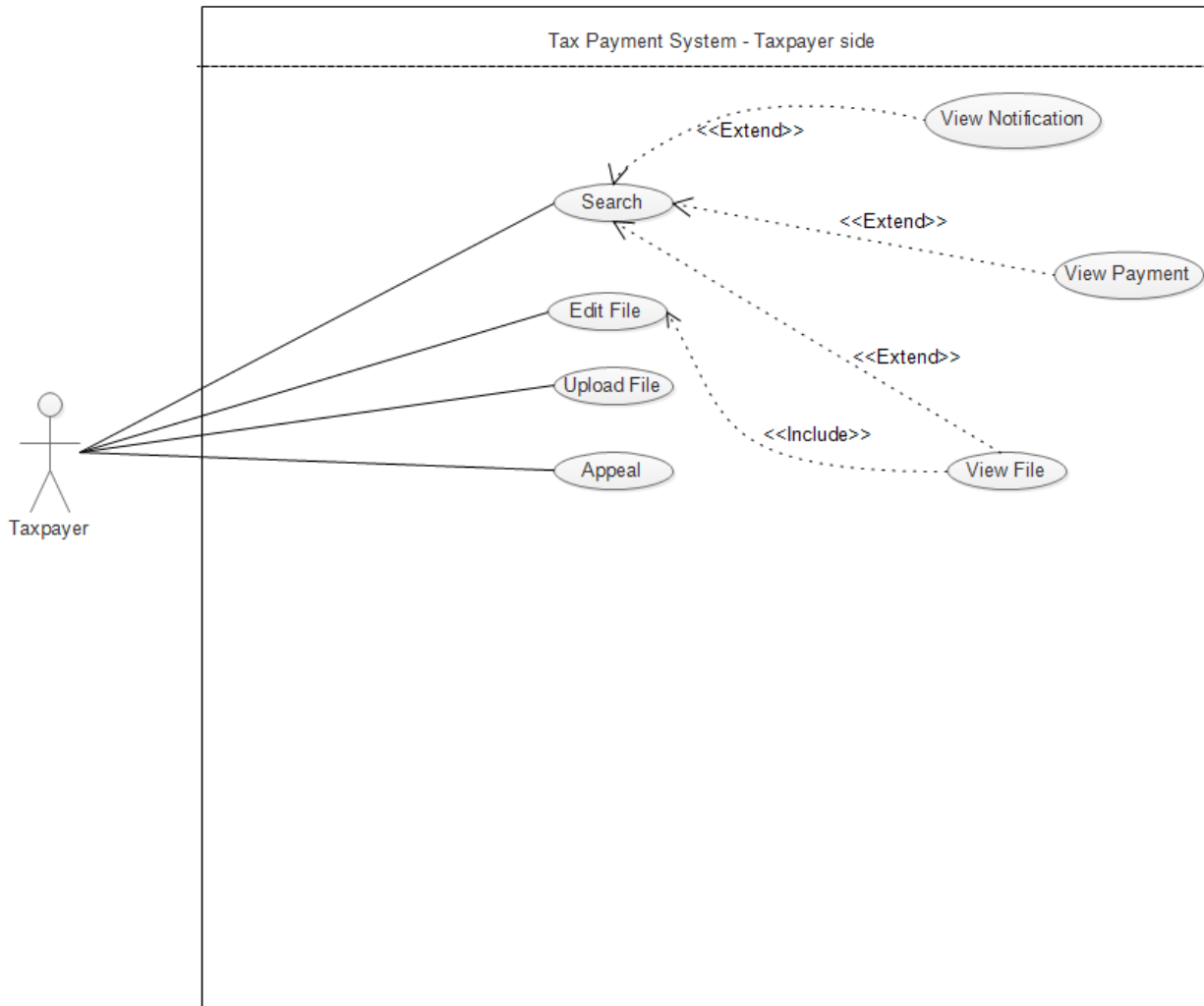


Figure 13 Use case diagram 2

3.3.1 UC: 01 Upload File

Goal: Upload files.

Primary Actor: Taxpayer

Scope: Tax payment system

Level: User

Precondition: Taxpayer should log in.

Success End: Tax payer uploads files.

Failure: Taxpayer does not upload files.

Trigger: uploading files.

Success scenarios

1. Tax payer selects upload option.
2. System displays the uploading page.
3. Tax payer uploads files.
4. System shows success of submission.

Extensions

3a. Invalid file format

- 3a.1 User will be alerted with error messages
- 3a.2 System returns to step 2.

3.3.2 UC: 02 Appeal

Goal: Tax payer appeals for exaggerated tax levies.

Primary Actor: Taxpayer

Scope: Tax payment system

Level: User

Precondition: Taxpayer should log in.

Success End: Tax payer appeals for exaggerated tax levies.

Failure: Tax payer couldn't appeal.

Trigger: appealing for exaggerated tax levies.

Success scenarios

1. Tax payer selects appeal option.
2. System displays the appealing page.
3. Tax payer fills required information, his/her appealing text and hit submit.
4. System shows success of submission.

Extensions

3a. Invalid information

- 3a.1 User will be alerted with error messages
- 3a.2 System returns to step 2.

3.3.3 UC: 03 View Files

Goal: Taxpayer views file for case of emergencies

Primary Actor: Taxpayer

Scope: Tax payment system

Level: User

Precondition: Taxpayer should log in.

Success End: Taxpayer view file

Failure: Taxpayer cannot view file

Trigger: View file.

Success scenarios

1. Taxpayer select view file option.
2. System searches for uploaded files.
3. System displays uploaded file.

Extensions

3a No uploaded file

3a.1 System displays No files message

3.3.4 UC: 04 View Payment

Goal: Taxpayer view tax payment

Primary Actor: Taxpayer

Scope: Tax payment system

Level: User

Precondition: Taxpayer should log in.

Success End: Taxpayer views tax payment

Failure: Taxpayer cannot view tax payment

Trigger: View payment.

Success scenarios

1. Taxpayer select view payment option.
2. System searches for payment history.
3. System displays payment history.

Extensions

3a No payment

- 3a.1 System displays No payment history message

3.3.5 UC: 05 Approve Payment

Goal: Administrator approves tax payment

Primary Actor: Administrator

Scope: Tax payment system

Level: User

Precondition: Administrator should log in.

Success End: Administrator approve user tax payment.

Failure: Administrator does not approve user tax payment

Trigger: Approve tax payment.

Success scenarios

1. Administrator selects approve option.
2. System displays Taxpayers list.
3. Administrator selects Tax payer and approves payment.

3.3.6 UC: 06 Reply Appeal

Goal: Administrator replay for taxpayers' appeal.

Primary Actor: Administrator.

Scope: Tax payment system

Level: User

Precondition: Administrator should log in.

Success End: Administrator replay for taxpayers' appeal.

Failure: Administrator does not replay for taxpayers' appeal.

Trigger: replay for taxpayers' appeal

Success scenarios

1. Administrator select appeal from appeals list.
2. System display field to write message.
2. Administrator write message and send.

3.3.7 UC: 07 Notify

Goal: Administrator notifies taxpayers about events.

Primary Actor: Administrator

Scope: Tax payment system

Level: User

Precondition: Administrator should log in.

Success End: Administrator notifies tax payers.

Failure: Administrator couldn't notify.

Trigger: Notifying tax payers.

Success scenarios

1. Administrator selects notify taxpayer option.
2. System displays the page for posting notification.
3. Administrator writes notifications for tax payers and submit.
4. System shows success of notification post.

Extensions

3a. Invalid information

3a.1 User will be alerted with error messages

3a.2 System returns to step 2.

3.3.8 UC: 08 Add Employee

Goal: Authorized person wants to add employee.

Primary Actor: Employee

Scope: Tax payment system

Level: User

Precondition: Employee should log in.

Success End: Employee adds employee.

Failure: Employee couldn't add employee.

Trigger: adding employee.

Success scenarios

1. Employee selects add employee option.
2. System displays the page for adding employee.
3. Employee fills information required about employee.
4. System shows success of adding employee.

Extensions

3a incorrect information

3a.1 the system displays error messages for incorrectly filled information.

3a.2 System returns to step 2.

3.3.9 UC: 09 Remove Employee

Goal: Administrator wishes to remove an officer.

Primary Actor: Administrator

Scope: Tax payment system

Level: User

Precondition: Administrator is logged in.

Success End: Administrator removes officer.

Failure: Administrator couldn't remove officer.

Trigger: removing officer.

Success scenarios

1. Administrator selects delete employee option.
2. System displays the page deleting officer.
3. Administrator fills name and id of officer he/she want to remove and hits delete.
4. System verifies officer deletion.
5. System shows up officer removed message.

3.3.10 UC: 10 Assignment

Goal: Administrator assigns tax inspector for taxpayers.

Primary Actor: Administrator

Scope: Tax payment system

Level: User

Precondition: Administrator should log in.

Success End: Administrator assigns tax inspector for taxpayers.

Failure: Administrator couldn't assign tax inspector for taxpayers.

Trigger: Assign tax inspector.

Success scenarios

1. Administrator selects assign inspector option.
2. System displays a page with inspector-taxpayer pair.

3.3.11 UC: 11 View Taxpayers

Goal: Employee view taxpayers list.

Primary Actor: Employee

Scope: Tax payment system

Level: User

Precondition: Employee should log in.

Success End: Employee view taxpayers list

Failure: Employee cannot view taxpayers list

Trigger: View taxpayers.

3.3.12 UC: 12 Search

Goal: Employee search database

Primary Actor: Employee

Scope: Tax payment system

Level: User

Precondition: Employee should log in.

Success End: Employee searches.

Failure: Employee unable to searches.

Trigger: Search.

Success scenarios

1. Employee enter a keyword and submit.
2. System searches for the keyword.
3. System display search result.

3.3.13 UC: 13 Register Taxpayer

Goal: Employee register taxpayer

Primary Actor: Employee

Scope: Tax payment system

Level: User

Precondition: Employee should log in.

Success End: Employee register taxpayer.

Failure: Employee cannot register taxpayer.

Trigger: Register taxpayer.

Success scenarios

1. Employee select Register Taxpayers option.
2. System displays a page to fill taxpayer's information.
3. Employee fill all the necessary information.
4. System validates the information and register.

Extensions

4a Invalid information

- 4a.1 System prompts with error message.
- 4a.2 System returns to step 2.

Success scenarios

1. Taxpayer select view taxpayer option.
3. System displays all taxpayers.

3.3.14 UC: 14 Add Event

Goal: Employee add event

Primary Actor: employee

Scope: Tax payment system

Level: User

Precondition: Employee should log in.

Success End: Employee adds event

Failure: Employee cannot add event

Trigger: Add event.

Success scenarios

1. Taxpayer select Add event option.
2. System provides fields to enter event information.

3. Employee fill the form and submit
3. System validates the input and add event to database.

Extensions

4a Invalid input

- 4a.1 System displays error message
- 4a.2 System returns to step 2

3.4 Non Functional Requirements

Localization

The proposed system should consider the flow of current working system. The system should provide a mechanism to be localized to the current working system. For example, Ethiopian calendar is used as official working calendar in the current system and the proposed system is obliged to work with Ethiopian calendar.

Security

Users' information and credential should be kept private. The system will provide an encryption method to protect sensitive users' information. Every user is authenticated before accessing any information with username and password to log in to his/her account. If suspicious activities is noticed, the user will be notified.

Usability

The system's user interface should be interactive and straight forward considering all the users with different experience on using computer. A simple user guide that is published and distributed by the authority should be helpful in creating the awareness and providing guidance for the mass community.

Performance

Each operation the system perform should have a maximum of 2 seconds response time on a local computer at test time. The one thing that should be taken in consideration is the mentioned

response time is measured excluding all the delays occurred due to internet connection. Moreover, the system tries to get the maximum efficiency with limiting heavy background tasks.

Reliability

In case of errors and system malfunction recovery of corrupt information and handling such issues are the work of the database management system we use.

Accessibility

The system is presented in a responsive manner and users can access it on any device of their choice like mobile phone, tablet or PC.

3.5 Inverse Requirements

Ethiopian taxation system software doesn't support any money transaction between the tax payer and the Ethiopian Revenue and Custom Authority.

3.6 Design Constraints

Simplicity was a basic constraint for us as it is an accepted modern-day policy of a design and most importantly, since most users of the taxation system software are merchants with low experience with computers, the taxation system software has to be simple to understand and operate by its users. As a result, we have been trying to reach an optimum between all the functional requirements of a certain page and the principle of simplicity alongside. A balance between the two is expected to be seen in the user interface design of the system.

3.7 Logical Database Requirements

Table 15 Database Requirements Table

Customer Service Personal	CS_ID	This data consists of all the information needed about the Customer Service employee. is used to authenticate whenever a Customer Service Personal wants to log in and whenever higher authority wants to get information about the employees.
	First name	
	Last name	
	Gender	
	Email address	
	User name	

	Password	
Tax Payer	TP_ID First name Last name Gender Bank account number Phone number Email address(optional) TIN number Address User name Password	This data consists of all the information about tax payer. It is used to authenticate whenever a tax payer wants to log in. It is also used when a Customer Service Personal wants to access information about the tax payer.
Paid List	Year TP_ID TP_name	This data is a list of tax payers who have paid their yearly tax. It used for identifying who paid his/her yearly levied tax.
News feed	N_ID Date Content	This data consists all the news and announcement from ERCA. It is used to update the tax payer about any new announcement from the ERCA.
Messages	M_ID Date Content	This data is used by the tax pater for appealing about the yearly levied tax.
Document_Store	D_ID Date Content	This is used by the tax payers to store their Documents.

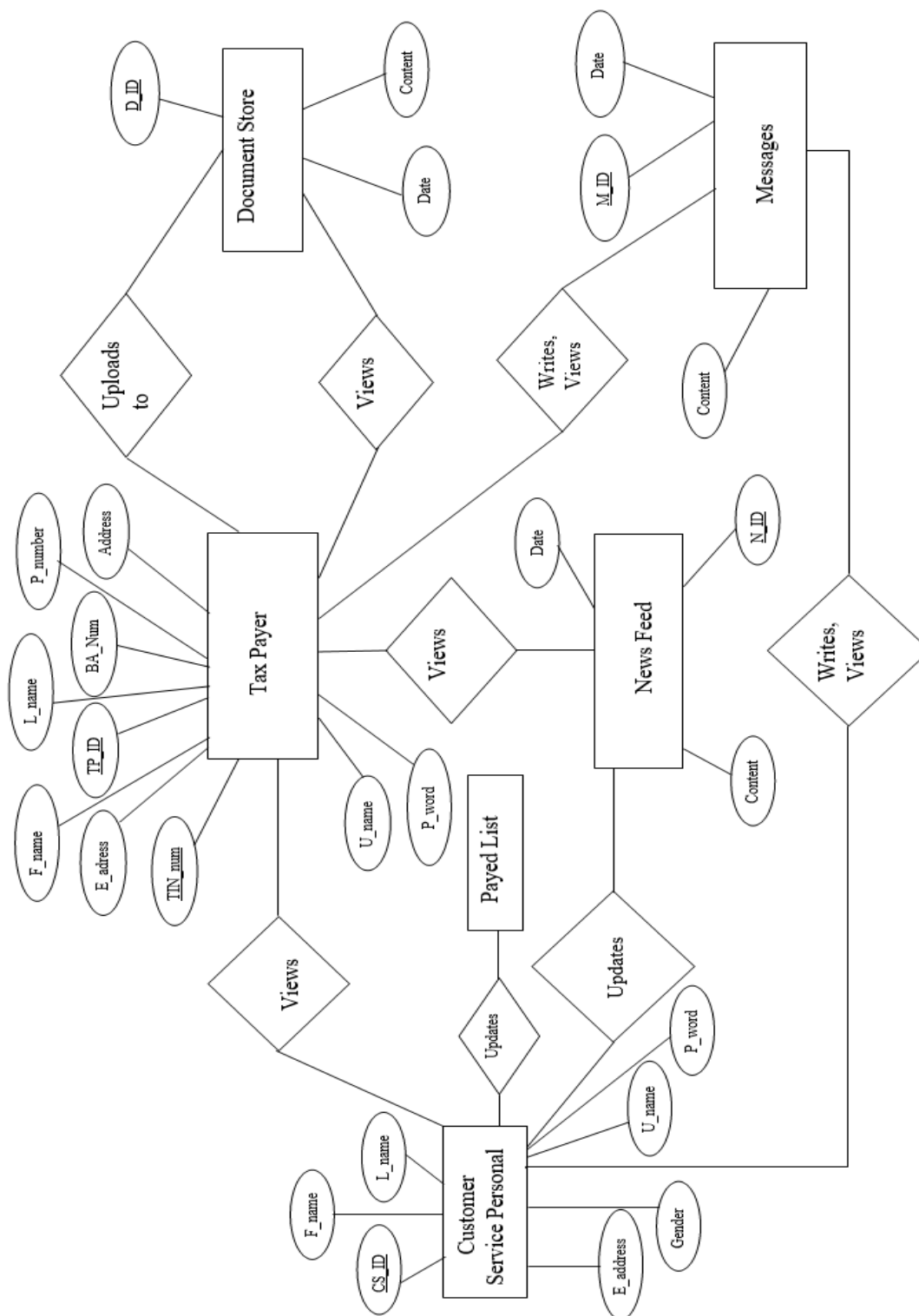


Figure 14 ER diagram

3.8 Other Requirements

Training Related Requirements

There will be a short training program for the tax payers to create awareness and how to use the taxation software system by the ERCA before deploying the software.

Packaging Requirements

The system is delivered as a web-based platform. This means it has to be loaded in a central server that can be accessed anywhere where there is internet connection. HTML, CSS, JavaScript and PHP files will be organized and uploaded on the server. Any user of the system will not be required to use extra software other than a simple internet browser that supports HTML5(The fifth version of HTML) and JavaScript and its frameworks.

Legal Requirements

ERCA will have the full copy right patent over the taxation software system.

4. Change Management Process

Any requests to change the project scope and requirements shall be discussed by all the members of the team and consult our adviser Mr.Fitsum. A change will be made only when the majority of the team agrees on the change. In this case, the SRS document shall be updated by the team members in order to reflect the changes, and a date of change shall be noted in the file. If this change request is made by the client or anyone outside of the team, he or she will have to contact the team. If a change request is made by a team member, he or she can raise it during the weekly team meeting or contact other team members via email. During any of these requests, the team will assess the feasibility of the proposed changes considering the time constraints and structural constraints of the implemented modules and develop an implementation strategy. A change plan will be created for the implementation of the change. The team will then continue implementing the new requirements.

REFERENCES

- Parivahan, <https://parivahan.gov.in/index.php>, April 10, 2018
- ERCA, <http://www.erca.gov.et/index.php/anout-us>, April 3, 2018