

Setup Document

ProP

Group : ProP-17

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Fontys ICT
English stream

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Agreements - made with the client

Processes

Use cases website

Name: Purchase a ticket

Brief Description: The user purchases a ticket on the website by providing their information. The provided information is then verified and if it is valid the user receives an email with the ticket and its information.

Actors:

The user is the visitor of the website.

The system is a website.

Basic Flow:

1. User opens website
2. User goes to the buy ticket page
3. System asks for name, surname, email, password and bank account number
4. The user provides their name, surname, email, password and bank account number
5. System requires confirmation
6. User provides confirmation
7. The system verifies that the user's email, password, and bank account number are valid
8. System complete the transaction
9. The system sends an email to the user's email with the ticket

Exceptions:

7.a One or more of the following items that the user provide is not valid: email password and bank account. The use case end.

Name: Log in

Brief Description: A user with an "event" account logs in to there account on the website by providing their password and ticket number these are verified by the website. If the password and ticket number are valid the user gains access to their account

Actors:

The user is an "event" account owner.

The system is a website.

Preconditions: User purchased a ticket and knows ticket number and password

Basic Flow:

1. User Opens the system
2. User goes to login page
3. The system asks for the password and ticket number
4. The user provides their ticket number and password
5. System requires confirmation
6. User provides confirmation
7. The system verifies that the user's ticket number and password is valid
8. The system gives the user access to their account

Exceptions:

7.a The ticket number and or password that the user provided is not valid. The use case ends.

Name: Add credits to account

Brief Description: User logs in to account and adds credits to their account by providing there bank account details to the website which validates bank account and collect the selected amount. The credits are then added to the user's account.

Actors:

The user is an “event” account owner.

The system is a website.

Preconditions: User is logged in

Basic Flow:

1. User goes to the profile page
2. The user selects add credits
3. System ask for an amount and bank account number
4. The user provides an amount and bank account number
5. The system verifies the user's bank account number
6. The system waits to receive the correct amount from the user's bank account
7. The system adds credits to the user's account

Exceptions:

5.a The bank account number and or password that the user provided is not valid. The use case ends.

6.a There was not enough funds to complete the transaction. The use case ends.

Name: Reserve camping

Brief Description: User logs in to account and reserves a camping spot by selecting the spot and specifying the other participants. The user has the option to pay immediately or later.

Actors:

The user is an “event” account owner.

The system is a website.

Preconditions: User is logged in

Basic Flow:

1. User goes to the profile page
2. The user selects reserve camping spot
3. The system asks the user to select a camping spot and amount of participants
4. The user selects a camping spot and provides the number of participants
5. The system provides the options to pay now or later
6. User selects pay now
7. System reserves camping spot

Alternate flow:

6.a User selects pay later

Name: Leave a review

Brief Description: User logs in to account and leaves a review of the event.

Actors:

The user is an “event” account owner.

The system is a website.

Preconditions: User is logged in

Basic Flow:

1. User goes to review page
2. The user selects to add a review
3. System ask for the review
4. The user provides their review
5. System submits the user's review

Use cases for applications

Entrance application

Name: Scan ticket

Brief Description: The user scans the ticket barcode and the system determines if the barcode is valid. The system displays whether the barcode is valid or not

Actors:

The user is an event worker that works at the entrance of the event

The system is the entrance application.

Basic Flow:

1. The system waits for a barcode to be scanned
2. User scans barcode
3. The system verifies if barcode belongs to a valid ticket that has not already scanned
4. System displays that the ticket is valid

Exceptions:

3.a The barcode does not belong to a valid ticket or the ticket has already been scanned. The System displays that the ticket is not valid. The use case ends.

Name: Buy a ticket

Brief Description: User provides email to the system. The system then generates a secure password and send the password along with the purchased ticket number to the provided email.

Actors:

The user is an event worker that works at the entrance of the event

The system is the entrance application.

Basic Flow:

1. The user provides the email of the person buying a ticket
2. The system verifies that the provided email is valid
3. The system generates a secure password and sends the password with the number of the purchased ticket to the provided email
4. The system provides confirmation that purchasing the ticket was a success

Exceptions:

2.a The email that was provided by the user was not a valid email address. The use case ends.

Name: Program RFID chip

Brief Description: The system programs the “event” account of the scanned or bought ticket to the RFID chip.

Actors:

The user is an event worker that works at the entrance of the event

The system is the entrance application.

Preconditions: A ticket has been scanned or a ticket was just bought

Basic Flow:

1. The user selects program chip

2. System programs a unique code linked to the ticket that was scanned or bought
3. The system gives confirmation that the chip was programmed successfully

Alternate flow:

3.a The system says that the chip programming was unsuccessful.

Entrance at camping application

Name: Check if group paid

Brief Description: The user provides the “event” account the system then checks if the camping spot still needs to be paid for and if so calculate and display the to be paid amount.

Actors:

The user is an event worker that works at the entrance of the camping spots

The system is the camping application.

Basic Flow:

1. The user provides the visitors RFID chip
2. The system reads the provided RFID chip
3. The system verifies that the provided “event” account has reserved a camping spot
4. The system verifies that the camping spot still needs to be paid for
5. The system calculates the amount needed to be paid
6. The system displays the amount that needs to be paid

Alternate flow:

4.a The camping spot has already been paid for. The system displays that it has already been paid for. The use case ends.

Shop application

Name: Buy item

Brief Description: The user selects item(s) the system then calculates the total price. The user then provides an “event” account the system then checks if there is enough funds to purchase the selected items and if so lower the credits by that amount.

Actors:

The user is an event worker that works the shops at the event

The system is the shop application.

Basic Flow:

1. The user selects the item(s) that the visitor requested
2. The system calculates and displays the total price of the item(s)
3. The user provides the visitors RFID chip
4. The system reads the provided RFID chip
5. The system verifies that the provided “event” account has enough event credits to purchase the item(s)
6. The system lowers the credits of the provided “event” account by the total price of the items
7. The system generates and provides a receipt

Exceptions:

5.a The “event” account does not have enough credits to pay for items. The system displays that there are not enough funds to complete the transaction. The use case ends.

Loan stand application

Name: Loan items

Brief Description: The user selects an item(s) the system then calculates the total price. The user then provides an “event” account. The system then checks if there are enough funds to loan the selected items and if so lower the credits by that amount and put the loaned items on the provided “event” account.

Actors:

The user is an event worker that works at the loan stand at the event

The system is the loan stand application.

Basic Flow:

1. The user selects the item(s) that the visitor requested
2. The system calculates and displays the total price of the item(s)
3. The user provides the visitors RFID chip
4. The system reads the provided RFID chip
5. The system verifies that the provided “event” account has enough event credits to loan item(s)
6. The system lowers the credits of the provided “event” account by the total price of the loaned item(s)
7. The system adds loaned items to “event” account
8. The system generates and provides a receipt

Exceptions:

5.a The “event” account does not have enough credits to pay for items. System displays that there are not enough funds to complete the transaction. The use case ends.

Name: Return loaned items

Brief Description: The user provides an “event” account. The system then checks if there are any loaned items on the account and if so displays the items

Actors:

The user is an event worker that works at the loan stand at the event

The system is the loan stand application.

Preconditions: Visitor has loaned items

Basic Flow:

1. The user provides the visitors RFID chip
2. The system reads the provided RFID chip
3. The system displays all of the items loaned by the provided “event” account
4. User collects items
5. The system marks the items on the provided “event” account as returned

Exiting application

Name: Leave event

Brief Description: The user provides an “event” account. The system then checks if there are any loaned items on the account if there are it displays the items. It also checks there is still credits on the account and if there are it displays the amount that needs to be returned. The provided account is then marked invalid.

Actors:

The user is an event worker that works at the exit of the event

The system is the exit application.

Preconditions: Visitor has entered the event

Basic Flow:

1. The user provides the visitors RFID chip
2. The system reads the provided RFID chip
3. The system checks the balance of the provided “event” account
4. The system displays the amount to be returned
5. The system verifies that there are no loaned items on the provided “event” account
6. The system marks the provided “event” account as invalid

Alternate flow:

5.a There are loaned items on the provided “event” account. The system displays the loaned items.

Status application

Name: Update status

Brief Description: The user request to update the status of the application. The system then retrieves the data from the database and displays the updated status.

Actors:

The user is an event worker

The system is the status application.

Basic Flow:

1. The user selects show info
2. The system displays the update data it retrieves from the database

Convert transaction-log-file application

Name: Convert

Brief Description: The user provides a transaction-log-file. The system then extracts the information from the file and updates the database.

Actors:

The user is an event worker

The system is the transaction-log-file converter application.

Preconditions: Visitor has entered the event

Basic Flow:

1. User provides transaction-log-file
2. The system verifies the provided file is valid
3. The system transfers the information from the text file to the database
4. System displays that the information was transferred successfully

Alternate flow:

4.a The system displays that the information transfer was unsuccessful

Functional requirements

Website

Must:

- Allow people to buy tickets to the event
- Allow account owners to reserve camping
- Allow account owners to add credits to their account

Should:

- Display information about the event
- Display contact information

Could:

- Display the answers to frequently asked questions
- Allow account owners to leave a review of the event
- Display the events review

Applications

Must:

- Show if the scanned ticket is a valid ticket
- Create a new “event” account with the provided email
- Program RFID chip
- Read RFID chip
- Lower the credits of the provided “event” account by the total price of the items
- Check if “event” account has reserved a camping spot and if it's paid for
- Calculate the to be paid amount for the camping spot
- Lower the credits of the provided “event” account by the total price of the loaned items and adds loaned items to “event” account
- Mark the item(s) on the provided “event” account as returned
- Check that there are no loaned items on the provided “event” account
- Show the amount of money that needs to be returned when exiting event
- Mark the provided “event” account as invalid when exiting event
- Show status of the event
- Convert the information in transaction-log-file to database
- Generate receipt

Should:

- Login user to get access to the applications they are allowed to applications

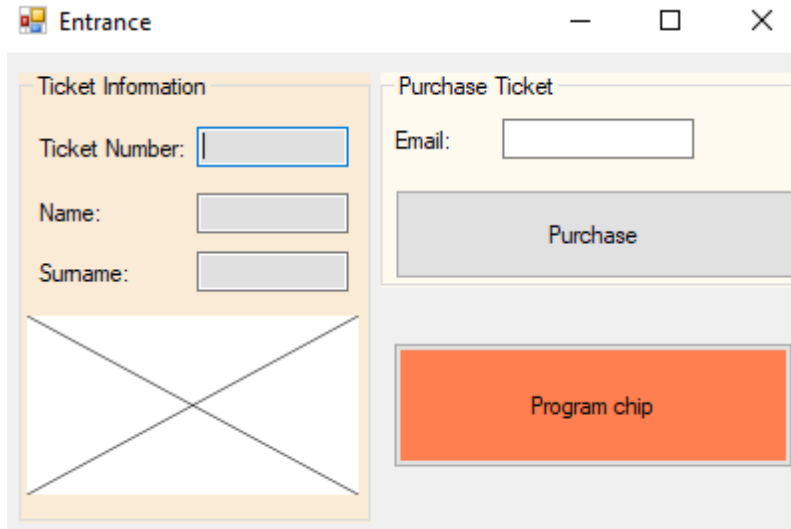
Graphical user interface

The light grey text boxes are read-only.

The white text boxes are read and type.

The white box with a cross is a picture box.

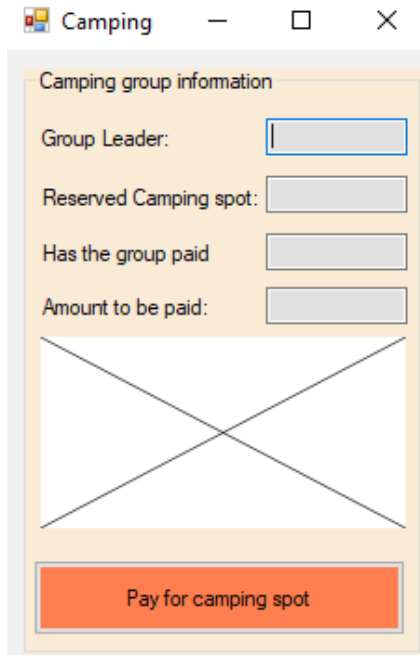
Entrance application:



The screenshot shows a window titled "Entrance" with standard Windows window controls (minimize, maximize, close). The window is divided into two main sections. The left section, titled "Ticket Information", contains three text input fields: "Ticket Number:", "Name:", and "Surname:". Below these fields is a large white rectangular area with a black 'X' drawn across it, indicating a picture box. The right section, titled "Purchase Ticket", contains an "Email:" text input field, a grey "Purchase" button, and an orange "Program chip" button.

The picture box first show waiting then when a code is scanned the ticket number, name, and surname text boxes are filled in if the code is valid. If not it displays that the code is not valid in the picture box. The user fills in the email text box and clicks purchase. A ticket is then purchased with that email. When the program chip button is pressed the RFID chip is then programmed.

Camping application:



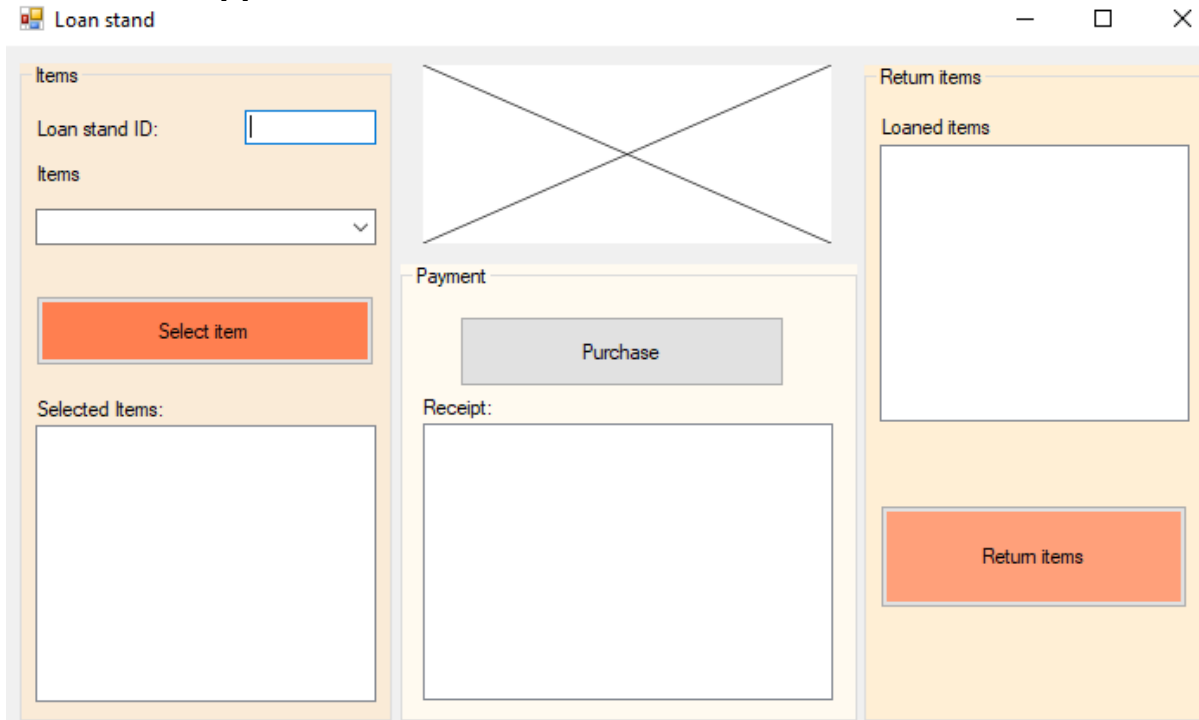
The picture box shows waiting until an RFID chip is scanned. When a chip is scanned the above text boxes are filled if the “event” account reserved a camping spot if not the picture box displays that there is no reservation on that account. When the pay for camping spot button is pressed the database is updated.

Shop application:

The screenshot shows a window titled "Shop" with standard Windows window controls (minimize, maximize, close). The window is divided into two main sections. The left section, titled "Items", contains a "Shop ID:" label followed by a text input field. Below this is an "Items" label followed by a dropdown menu. An orange button labeled "Select item" is positioned below the dropdown. At the bottom of this section is a "Selected Items:" label followed by a large, empty rectangular box. The right section, titled "Payment", contains a large rectangular area with a diagonal cross, likely representing a payment screen that is currently disabled or waiting. Below this is a grey button labeled "Purchase". At the bottom of this section is a "Receipt:" label followed by a large, empty rectangular box.

The user fills in the ID of their shop in the text box. The user uses a combo box to pick an item and presses the select item button to select it. The selected items are displayed in the list box. The picture shows waiting until an RFID chip is read, the user can then press the purchase button to complete the transaction. The receipt of the transaction is then shown in a list box.

Loan stand application



The image shows a software application window titled "Loan stand". The window has a standard Windows-style title bar with minimize, maximize, and close buttons. The main interface is divided into several sections:

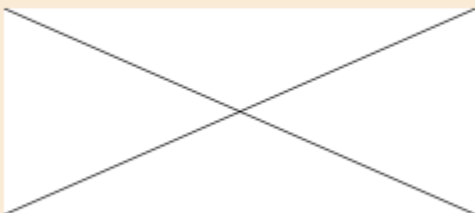
- Items section (top left):** Contains a "Loan stand ID:" label followed by a text input field. Below it is a label "Items" followed by a dropdown menu.
- Select item button:** An orange button labeled "Select item" is positioned below the dropdown menu.
- Selected Items:** A large white rectangular area below the "Select item" button, intended for displaying the selected items.
- Payment section (center):** A grey button labeled "Purchase" is located in the center of the window.
- Receipt:** A large white rectangular area below the "Purchase" button, intended for displaying the receipt.
- Return items section (top right):** A label "Return items" is at the top of this section.
- Loaned items:** A large white rectangular area below the "Return items" label, intended for displaying the items currently loaned by the user.
- Return items button:** An orange button labeled "Return items" is located at the bottom of the "Return items" section.

The user fills in the ID of their Loan stand in the text box. The user uses a combo box to pick an item and presses the select item button to select it. The selected items are displayed in the list box. The picture shows waiting until an RFID chip is read, the user can then press the purchase button to complete the transaction. The receipt of the transaction is then shown in a list box. When the RFID chip is read the return items list box then displays all items currently loaned by that visitor. The user selects the items to return and then presses the return items button to return the items.

Exit application

Exit event

Exit check



Ticket number:

Amount to be returned:

Loaned items

The picture box shows waiting until an RFID chip is scanned. The ticket number, amount to be returned are displayed in text boxes and the loaned items are shown in a list box.

Status application

Visitor information

Total visitors:

Total balance of all visitors:

Total money spent:

Ticket number:

Find visitor info

Visitor status

Visitor history

Camping

Amount of booked camping spots:

Amount of free camping spots:

Amount earned per shop

Shop ID:

Amount earned:

Find shop

Amount earned per product

Product ID:

Amount earned:

Find product

The application retrieves the data from the database and fills in the text boxes and list boxes. For the specific information such as the amount earned per product, an ID is filled into the text boxes and when the button is pressed it finds the data and displays it in a list box or text box.

Convert application

Convert file

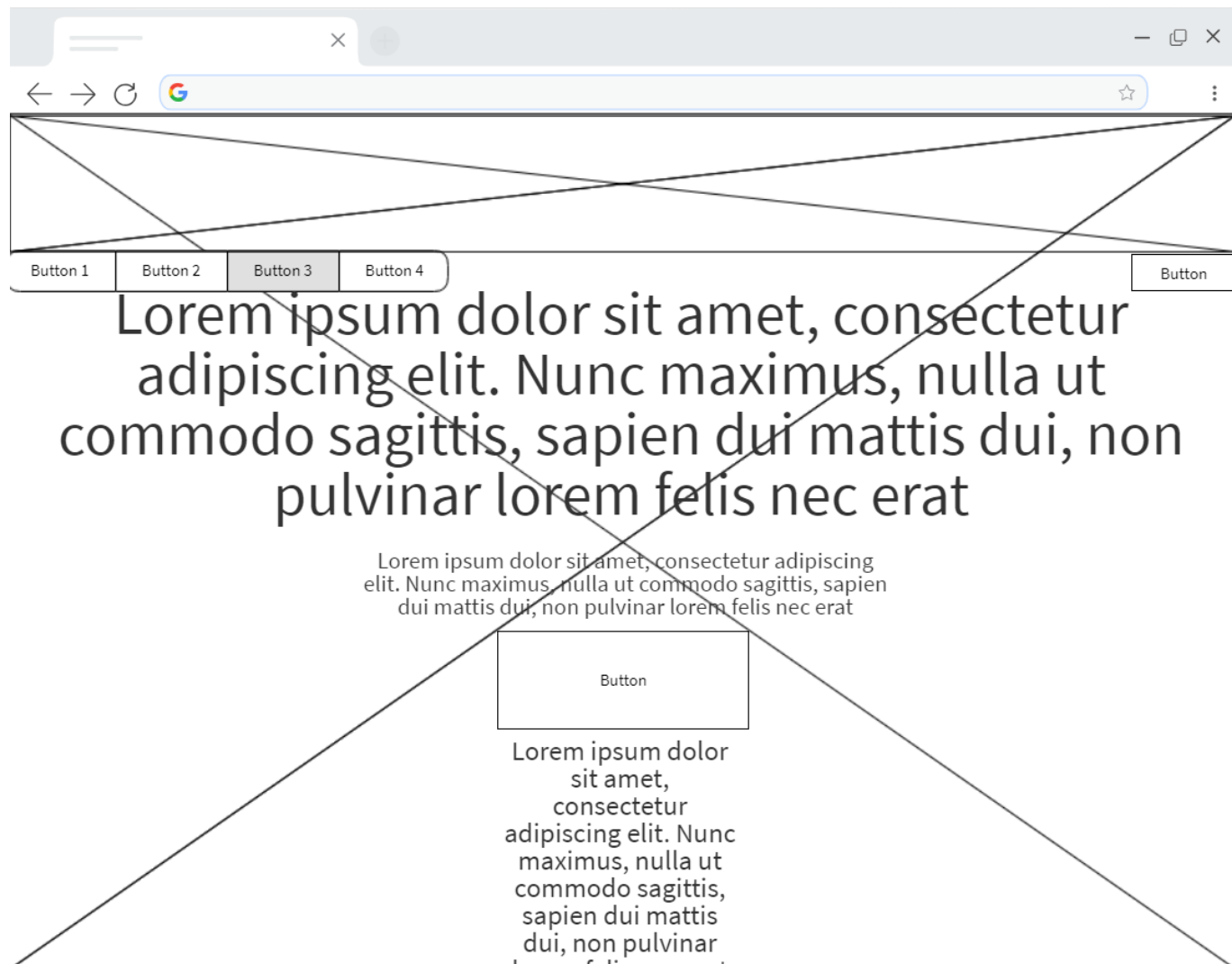
Insert transaction-log file:

Convert

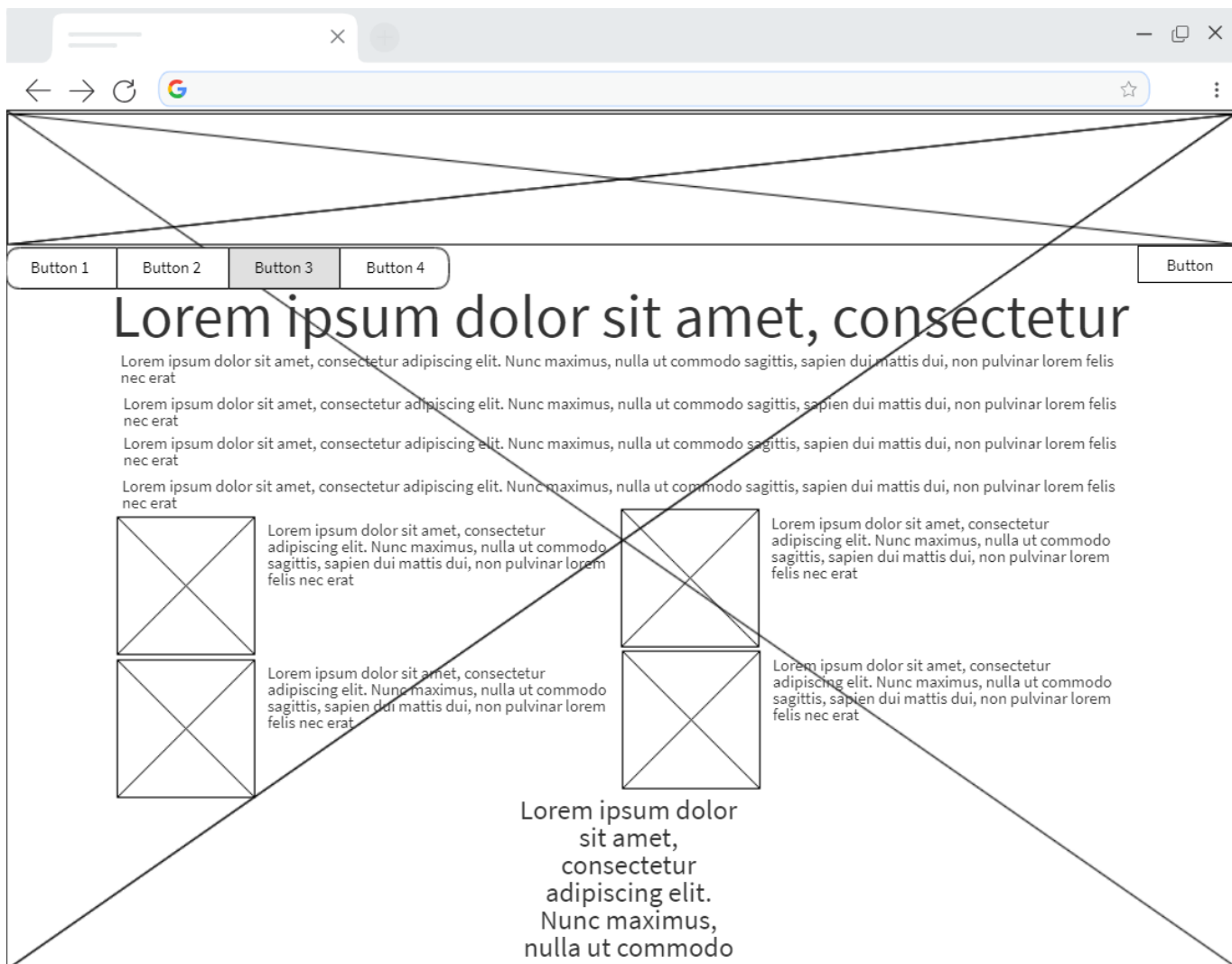
The user provides a transaction log file and presses the convert button to convert the file.

Website wireframe

Home page



About us page



Buy a ticket page

Button 1 Button 2 Button 3 Button 4 Button

Lorem ipsum dolor sit amet, consectetur

Buy a Ticket

First Name

Last Name

Email

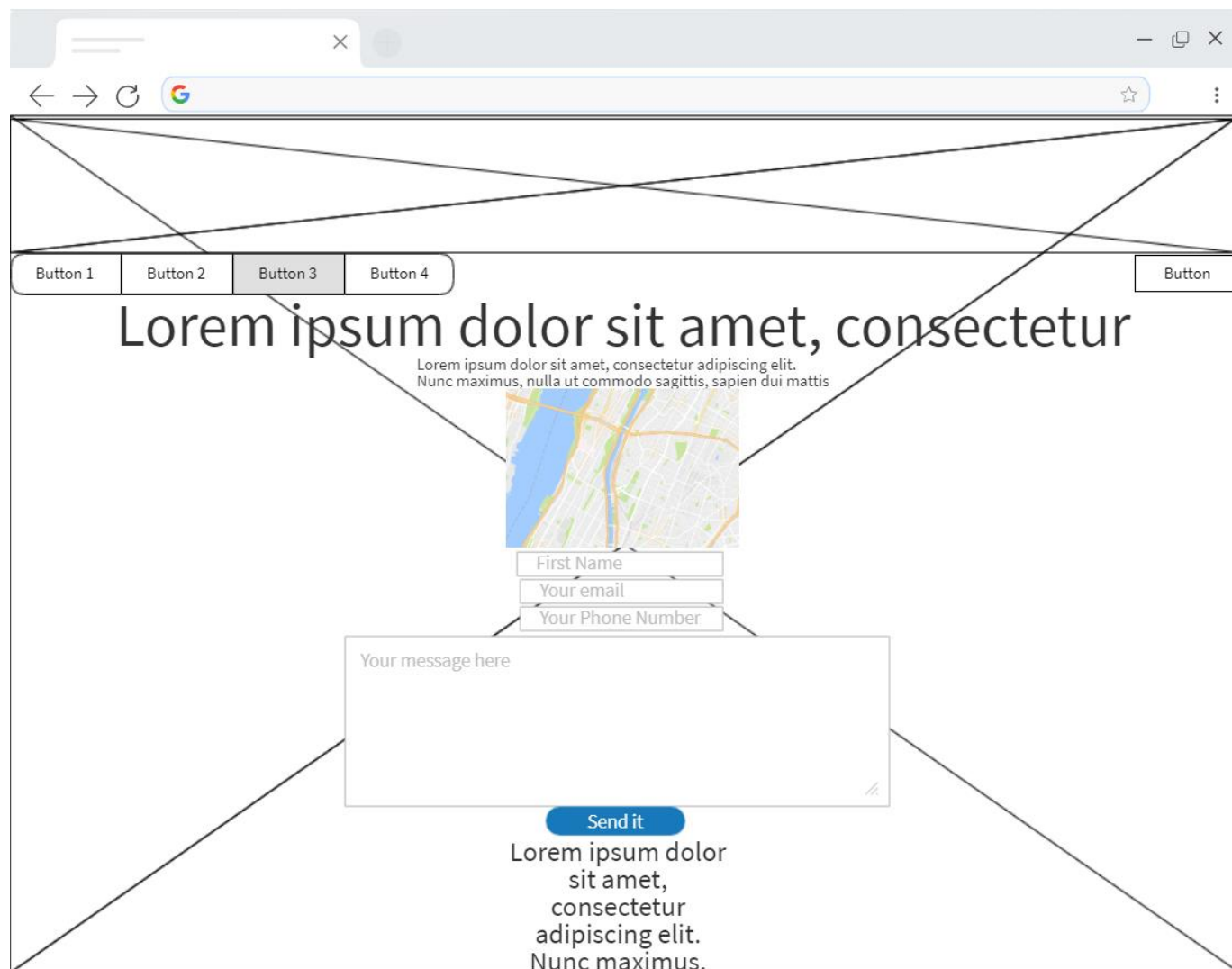
Password

IBAN

Confirm

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nunc maximus, nulla ut commodo sagittis, sapien dui mattis dui, non pulvinar

Contact us wireframe page

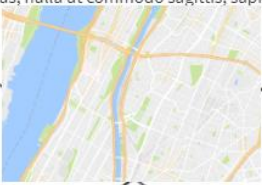


A wireframe of a contact us page. The page is enclosed in a browser window with a search bar and navigation icons. The main content area features a header with four buttons (Button 1, Button 2, Button 3, Button 4) and a single button on the right. Below the header is a large heading "Lorem ipsum dolor sit amet, consectetur" followed by a paragraph of Lorem Ipsum text. A map image is positioned below the text. Below the map are three input fields: "First Name", "Your email", and "Your Phone Number". A large text area for "Your message here" is below the input fields. A blue "Send it" button is centered below the message area. At the bottom, there is another paragraph of Lorem Ipsum text. The entire page is overlaid with a large 'X' for design reference.

Button 1 Button 2 Button 3 Button 4 Button

Lorem ipsum dolor sit amet, consectetur

Lorem ipsum dolor sit amet, consectetur adipiscing elit.
Nunc maximus, nulla ut commodo sagittis, sapien dui mattis



First Name
Your email
Your Phone Number

Your message here

Send it

Lorem ipsum dolor
sit amet,
consectetur
adipiscing elit.
Nunc maximus.

Login page

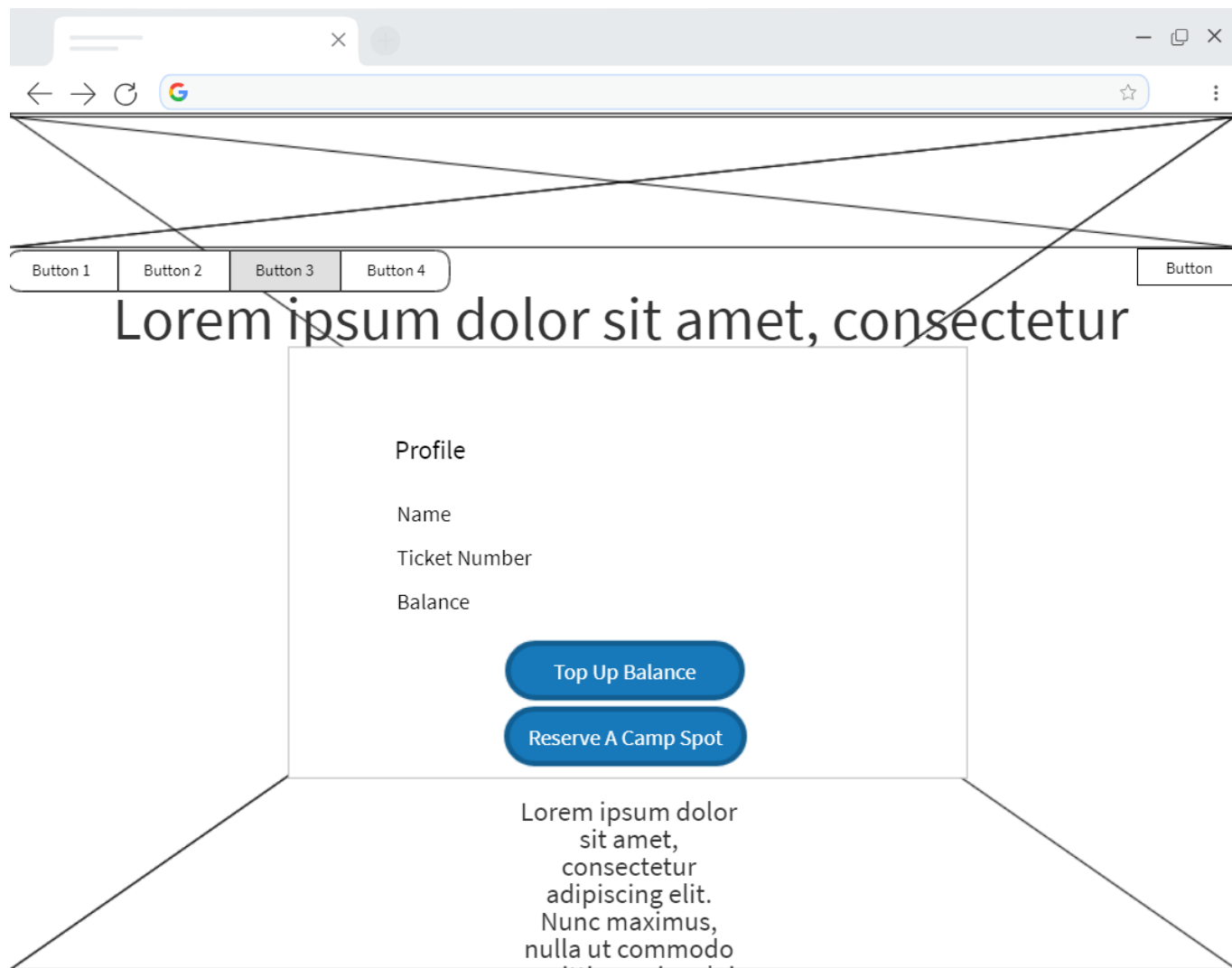
Button 1 Button 2 Button 3 Button 4 Button

Lorem ipsum dolor sit amet, consectetur

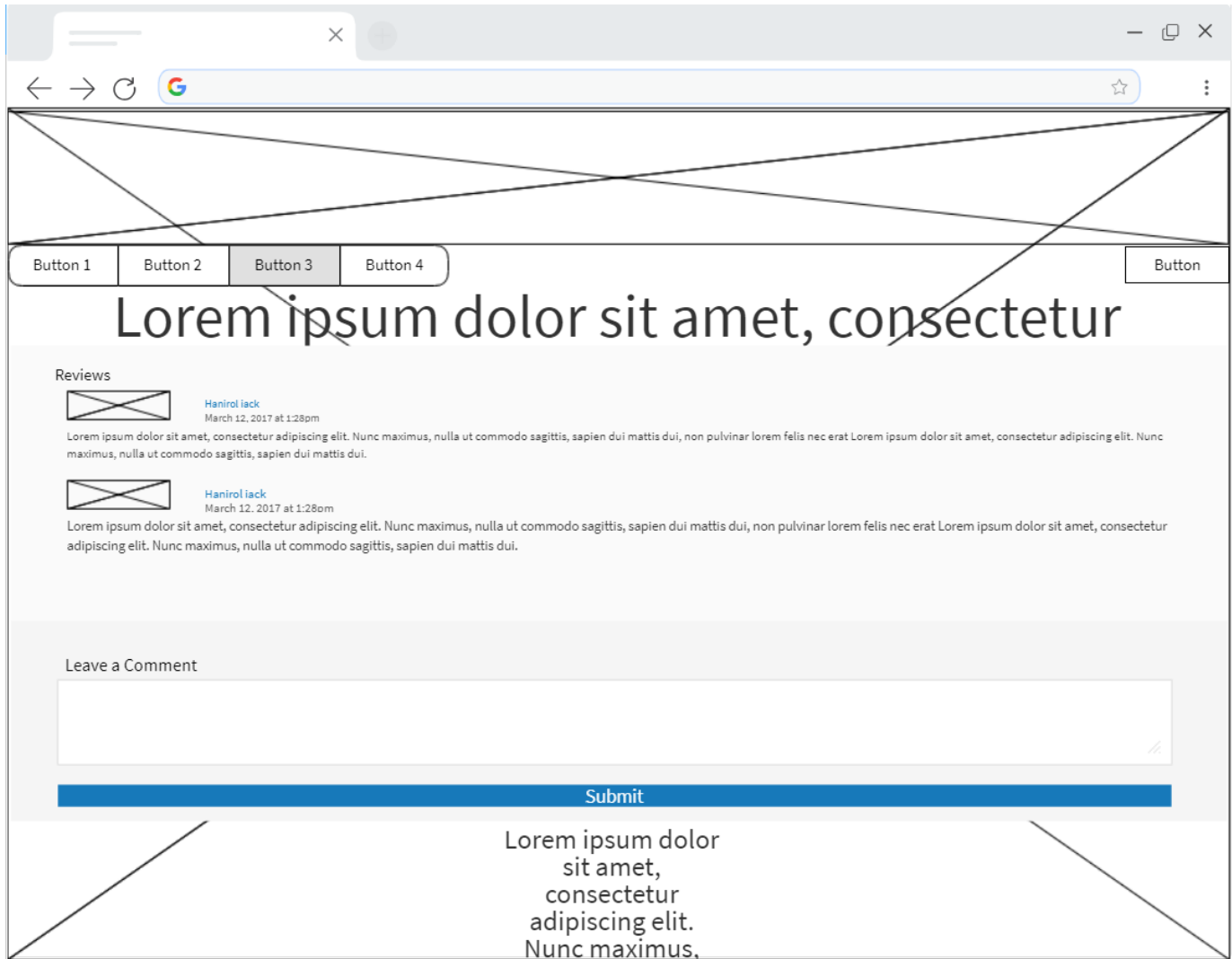
Log In

Lorem ipsum dolor
sit amet,
consectetur
adipiscing elit. Nunc
maximus, nulla ut
commodo sagittis,
sapien dui mattis
dui, non pulvinar

Profile page



Review page



Entity relationship diagram