

TEAM C

PostCardBuddy

System Requirements

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1 Background

2 System Requirements

2.1 Goal

The product aims to increase the amount of postcards sent and shall achieve this through the following goals:

- Simplify the process of sending postcards
- Enable user to send personalized postcards
- It shall be possible to generate revenue through the system

2.2 Domain

2.2.1 Supported systems

Req 1.2.1.1 The system shall support iOS.

Req 1.2.1.2 The system shall support Android.

Req 1.2.1.3 The system shall support a mobile payment solution.

2.2.2 Interfaces

Req 1.2.2.1 The interface connecting PostCardBuddy and the printed postcards is an off-the-shelf printer.

Req 1.2.2.2 The system sends image files to a printer.

2.3 Product

Req 1.3.1.1 Success notification The user shall be notified when an order is sent from a device.

Req 1.3.1.2 Fail notification The user shall be notified when an order fails to be sent from a device.

Req 1.3.1.3 No internet If the user places an order on a device that is not connected to the internet, the order shall be stored and sent the next time the device receives internet connection.

2.4 Design

Req 1.4.1.1 Front page The front of the postcard shall be a field containing an image.

Req 1.4.1.2 Text field The back of the postcard shall contain a text field.

Req 1.4.1.3 Address field The back of the postcard shall contain an address field.

Req 1.4.1.4 Postage field The back of the postcard shall contain a postage field.

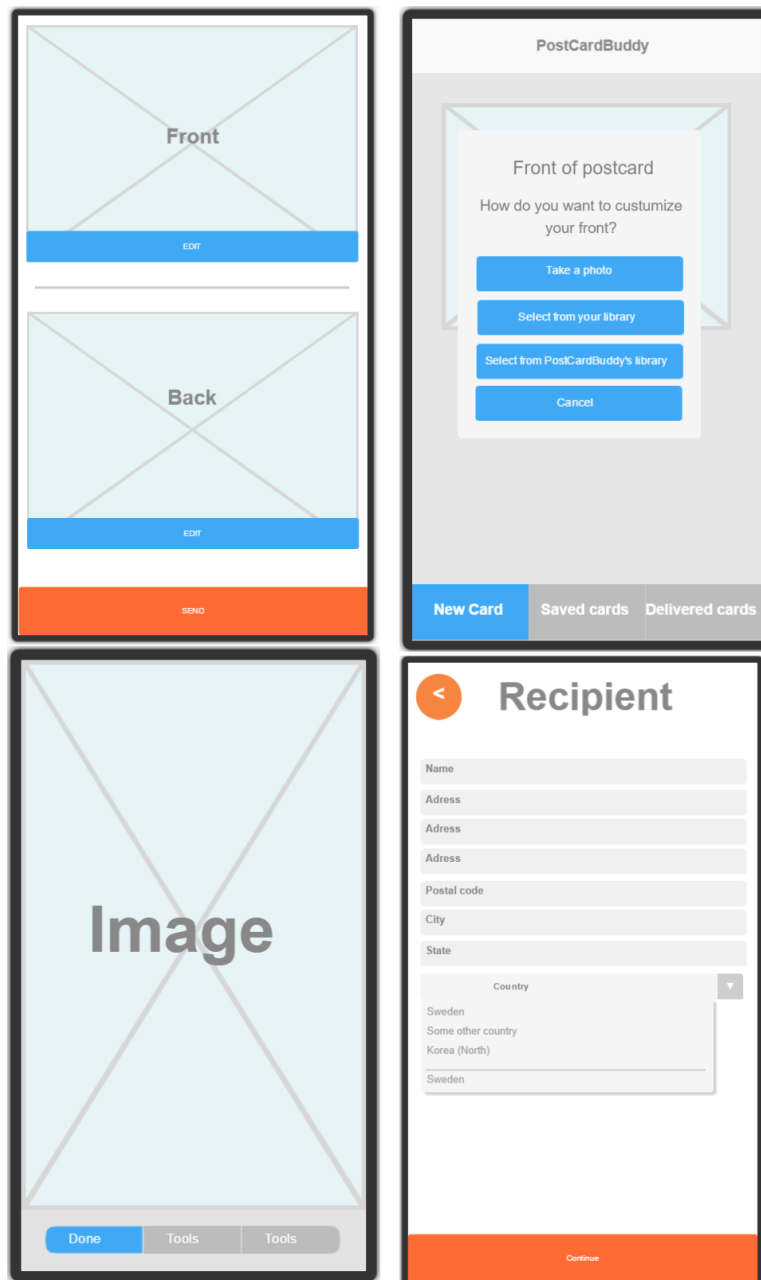


Figure 1: The prototype

Req 1.4.1.5 Postage print The postage shall be printed in the top right corner on the back of the postcard.

Req 2.4.1.5 Start Screen The application shall start with a screen where its possible to choose front and back image/text figure 1 upper left.

Req 2.4.1.6 Get image The application shall let the user choose the image source from a menu 1 upper right.

Req 2.4.1.7 Edit image The application shall give the user a basic image editor to customize the image 1 lower left.

Req 2.4.1.8 Recipient adress The application shall have an adress input screen with an address-book/contacts (not in image) 1 lower right.

2.5 Data Requirements

Req 1.5.1.1 Data model The system shall handle the data presented in the data model in figure 2.

2.6 Functional Requirements

2.6.1 Images

Req 2.6.1.1 Image from gallery It shall be possible to choose pictures from the phone gallery for the front of the postcard.

Req 2.6.1.2 Picture from camera It shall be possible to take a picture through the camera and use as image for the front of the postcard.

Req 2.6.1.3 Image and GPS position It shall be possible to choose images depending on the user's GPS position.

Req 2.6.1.4 Image editing The system shall have a function for editing of images.

Req 2.6.1.5 Image saving It shall be possible to save images.

2.6.2 Greetings

Req 2.6.2.1 Greetings It shall be possible to write greetings in the app.

Req 2.6.2.2 Pictures of handwritten greetings It shall be possible to choose a picture of a hand-written greeting.

Req 2.6.2.3 Auto-generated greetings It shall be possible to choose a template greeting.

Req 2.6.2.4 GPS based greetings The system shall be able to generate greetings based on GPS position.

Req 2.6.2.5 Handwritten greetings on screen It shall be possible to write a handwritten greetings directly on the screen.

Req 2.6.2.6 Saving greetings It shall be possible to save a greeting.

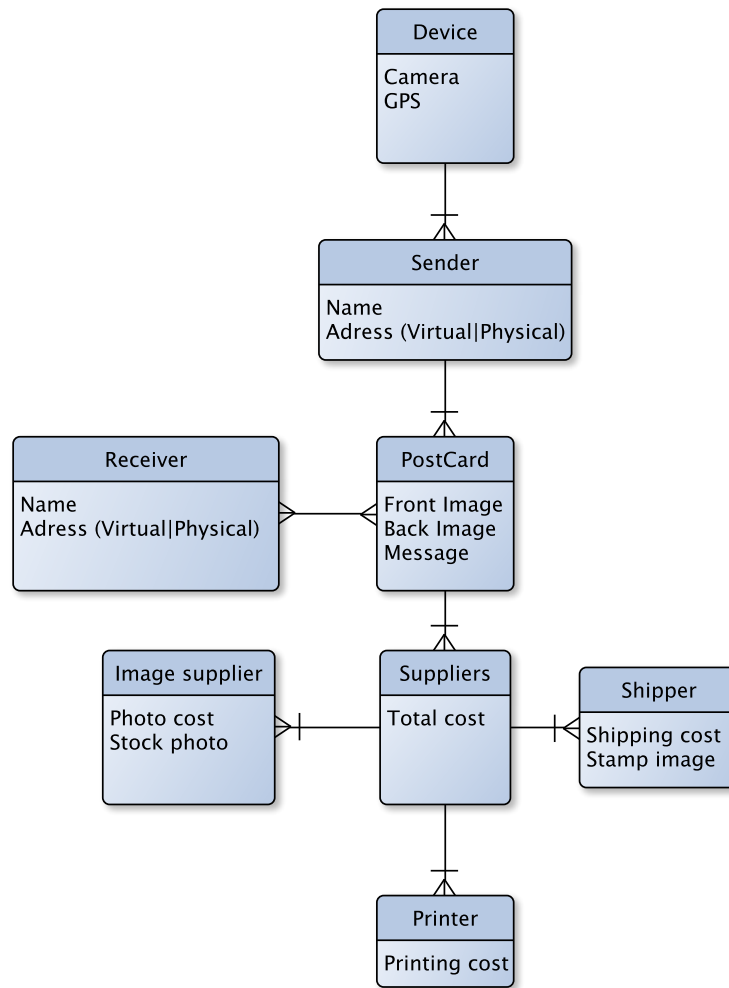


Figure 2: Data model

2.6.3 Recipients

Req 2.6.3.1 Enter recipients It shall be possible to enter recipients manually.

Req 2.6.3.2 Phone book recipients It shall be possible to choose recipients through the phone book.

Req 2.6.3.3 Multiple recipients The system shall be able to handle multiple recipients for one postcard.

Req 2.6.3.4 Favourite recipients It shall be possible to save recipients as favourites.

Req 2.6.3.5 Frequent recipients The system shall show frequently used recipients as favourite recipients.

2.6.4 Postcard

Req 2.6.4.1 Saving postcards It shall be possible to save postcards.

Req 2.6.4.2 Reuse postcards It shall be possible to reuse saved postcards.

Req 2.6.4.3 Digital postcard It shall be possible to send digital postcards.

Req 2.6.4.4 Physical postcards It shall be possible to send physical postcards.

Req 2.6.4.5 Postcard size It shall be possible to choose the size of the physical postcard.

Req 2.6.4.6 Quality of physical postcard It shall be possible to choose the print quality of physical postcards.

Req 1.6.2.8 Payment Feature for payment within application.

Req 2.6.4.1 Confirmation of order The system shall provide a conformation when an order has been placed.

Req 1.6.3.7 History Feature for seeing the history of sent postcards.

Req 1.6.3.8 Social media Feature for sharing postcards on social media.

2.7 Quality Requirements

2.7.1 Performance

Req 2.7.1.1 Memory usage The application shall adjust its memory usage depending on the device.

Req 2.7.1.2 Speed The user interface shall be considered smooth on devices faster than Nexus 5 / iPhone 5 for 8 out of 10 users.

Req 2.7.1.3 Picture quality The camera shall be able to take a picture in the highest hardware supported resolution.

Req 2.7.1.4 Autofocus The camera shall have a autofocus that is comparable to the Android / iOS stock camera.

2.7.2 Availability

2.7.3 Security

Req 2.7.3.1 Store cards The photos shall be stored encrypted

Req 2.7.3.2 Sending card The photos shall be sent encrypted to back-end.

2.7.4 Maintainability/Portability

Req 2.7.4.1 Language The application shall be developed in non native language e.g. Java for Android.

Req 2.7.4.2 Device support The application shall work on devices with newer operating systems than Android 4.1 / iOS 7.0.1

2.7.5 Usability

Req 2.7.5.1 User friendly 9 out of 10 users shall be able to use the system after a five minute instruction.

3 Specification Techniques

3.1 Context Diagrams

Figure 3 shows the context diagram. This diagram shows the interface that the application PostCardBuddy will interact with and the stakeholders who will interact with the application.

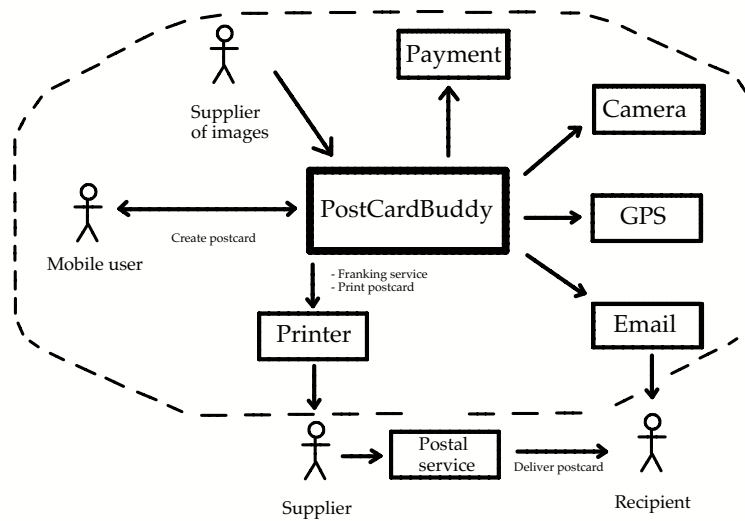


Figure 3: Context diagram of product.

3.2 Features

3.3 Virtual Windows

3.4 Task Descriptions

4 Release Plan