Project Proposal

The purpose of this document is to describe a mobile app development project intended to be carried out by students at Tartu University. In short, we want to create a visual front end reproduction of an existing app. There is no available back end for this app yet, and the front-end functionality is also not currently well specified.

TWINT

TWINT is a popular new Swiss mobile payment app which supports several different payment functionalities, including:

1. Sending money to friends (user to user payments)
2. Splitting a bill between friends (social payments)
3. Online payments
4. Payments at cash registers, vending machines, and car parks.
5. Storage of other card details (Similar to Apple Wallet)

More details on functionality can be found on their website.

Scope

We would like to build a front end code base, using Google’s Flutter framework. Flutter is a cross platform development toolchain based on the programming language Dart. This approach allows the developer to compile and use a single code base on both iOS and Android (as well as on different desktop operating systems) with fully native performance characteristics, and without relying on browser dependencies, like in electron used applications.

The delivered application should look and feel similar, but not necessarily identical to the target TWINT app we are trying to replicate. There is, therefore, a design component to this project, in that we do not want the app to be a look alike, but rather have it’s own design. There is no detailed specification for the design itself, rather we would like the students to use their discretion to propose a clean, simple, unobtrusive design that can be modified later to create white-labeled versions of the application.

Acceptance criteria
1. The application should have a corresponding page for every page in the TWINT app.
2. Each page should have buttons, menus, and dropdown etc. for each on in the TWINT app.
3. The app should be capable of scanning and reading data from a QR code, as the TWINT app does, although there is no functionality required relating to what should be done with the data found.
4. NFC functionality, if present in TWINT does not need to be replicated, due to the difficulty involved.
5. Navigation through the app pages should work exactly like TWINT
6. Design elements should be clean, simple, and easy to adjust as needed.
7. App must compile, targeting iOS and Android - desktop target not required.

More information and contact:

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