

How to Use this Template

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Submission Instructions

1. After you’ve completed all the sections, download this document as a PDF [File → Download as PDF]
2. Create a new GitHub repo for the capstone. Name it **“Capstone Project”**
3. Add this document to your repo. Make sure it’s named **“Capstone_Stage1.pdf”**

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GitHub Username: <https://github.com/gabeira>

Bitcoin Now

Description

Discover a lot of places that accept Bitcoins in a Map

Display current exchange rates:

- In your Watch with Android WatchFace
- In Ticker Widget
- Or inside app on Phone

Check the Bitcoin News from reddit.com

Obs. Bitcoin is a type of digital currency in which encryption techniques are used to regulate the generation of units of currency and verify the transfer of funds, operating independently of a central bank.

Intended User

This app is for everyone interested into learn more about Bitcoins and check current value and places that accept it.

Features

List the main features of your app. For example:

- Map with places that accept Bitcoin
- Display Bitcoin Exchange Rates
- WatchFace with Bitcoin Exchange Rates
- Widget Ticker with Bitcoin Exchange Rates
- Bitcoin News from reddit.com

User Interface Mocks

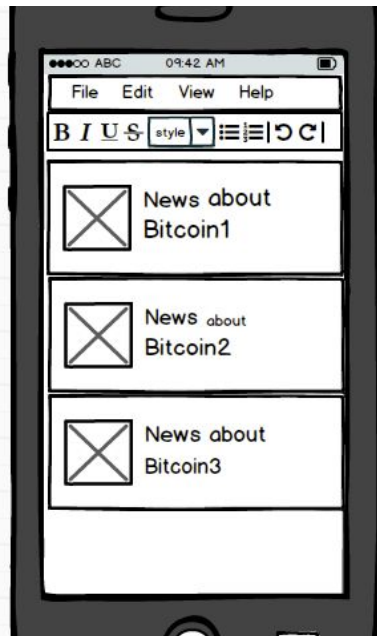
These can be created by hand (take a photo of your drawings and insert them in this flow), or using a program like Photoshop or Balsamiq.

Screen 1



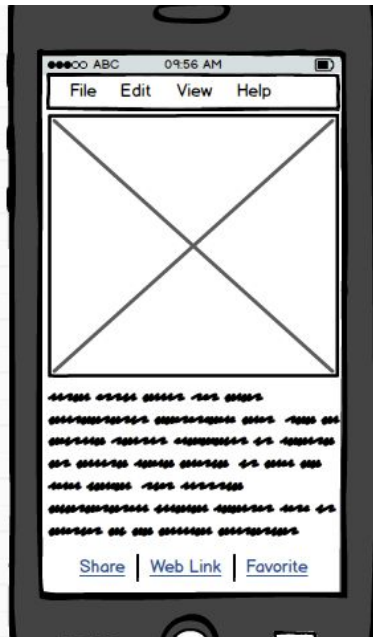
Screen with a map and markers showing the places that accept Bitcoins and Exchange Rates toolbar.

Screen 2



Screen with Bitcoin Exchange Rates toolbar and News from reddit.com/bitcoin.

Screen 3



Screen with details from News, with links to share, to open respective link and maybe other options.

Screen 4



Screen for Watch Face showing Time, Date, Bitcoin Exchange Rates and provider name.

Key Considerations

How will your app handle data persistence?

The app will contain a Bitcoin Exchange Rate Content Provider and Bitcoins Places will be stored into a SQLite database to save data consumption.

Describe any corner cases in the UX.

The user should choose from Toolbar which screen to access, Map, News or Settings. Back button will work just on News Detail and Settings, into other screen, the back button will exit the application.

Describe any libraries you'll be using and share your reasoning for including them.

Glide to handle the loading and caching of images;
SQLite.

Next Steps: Required Tasks

This is the section where you can take the main features of your app (declared above) and decompose them into tangible technical tasks that you can complete incrementally until you have a finished app.

Task 1: Project Setup

- Create project
- Configure libraries and Modules(App,Wear)
- Setup Git

Task 2: Implement UI for Each Activity and Fragment

- Build UI for MainActivity
- Build UI for MapFragment
- Build UI for News and NewsDetail Fragments
- Build UI for Widget
- Build UI for Settings

Task 3: Implement Bitcoin Exchange Rates Content Provider

- Create Model class
- Implement CursorAdapter
- Implement SyncAdapter
- Implement test case

Task 4: Implement WatchFace and Widget

- Implement WatchFace Canvas to Draw
- Use Data Api to get data from Bitcoin exchange rates
- Create layout for widget
- Implement widget

Task 5: Map with Bitcoin venues

- Configure Map at Google Console
- Implement search for venues
- SQLite Data management
- Add markers

Task 6: News from Reddit

- Implement task to get data from reddit.com
- Create layout for recyclerview
- Implement News fragment
- Implement News Detail

Add as many tasks as you need to complete your app.

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