

Features

- Login Page
- Being able to take a picture
- Being able to identify coins
- Display total amount of coins
- Calculate the total
- Change amount into other currency
 - Flag info/ other country coin info
- Ask the user for a reference coin
- Correct bad images "Notify the user"
- Have info about \$Dollars
- Have a guidelines for how to take a picture of the coins
- Do database for currency info.

If we have time

- Add other currency
- Expand

Non-functional and functional requirements

1. Being able to take a picture (F)

As a user I can press a button and the camera feature will be fully loaded on the screen.

As a user I can take a quality picture and focus the image.

If my device is not supported or permission is not given to the app, I as a user will be notified.

I should be able to exit out of the camera portion of the app without taking a picture if I chose so.

2. Being able to identify coins (NF)

I, as a user can depend on the app to give the correct value for each coin, based off of the coin I label for reference.

My photo can pick up on all of the coins in the photo in order to give me an accurate total.

Filters are applied and the outline of the coin and it is cut out and detected.

3. Calculate and display amount of coin (NF and F)

My display is legible and it is clear what the total is.

I receive the correct total from the backend.

4. Ask user for a reference coin (F) - Backup if machine learning doesn't work

As a user I should be prompted with a request for a reference coin.

I should be able to choose from a set of coin options to label the reference coin.

The reference coin should be able to give the correct value for the rest of the coins.

5. Correct bad images (F)

As the user, I should be shown which coins are being detected so I can retake the picture if coins are missed.

I should be given a prompt for how to take a better picture.

I should be given a prompt to take a new picture until I get it right or decide to quit.

6. Have a guideline for “how to take a picture” (F)

As a user, I will be instructed on the best angle to take the photo.

I will be informed of how to get all of the coins in the picture and therefore counted.

I will be informed of how to choose a suitable background for the image that will produce the best results.

I will be instructed of the best lighting to take the photo, (including flash).


I will be told that I need to have my photo in focus.

7. Database with current currencies stored (NF)

As a user I should have the option to convert my total into different currencies.

I can rely on the database having the correct currency conversion.

The amount of coins is stored.

Sprint 1			Owner	Status	Due Date	Priority	Tags
	Take Picture		 +2	Working on it	<input type="radio"/> Nov 1		
	How to Take Picture		JS +2	Working on it	<input type="radio"/> Nov 1		
	Display dummy info		JS +2	Working on it	<input type="radio"/> Nov 1		
	Tutorial		JS +2	Working on it	<input type="radio"/> Nov 1		
	Database		AG	Working on it	<input type="radio"/> Nov 1		
	API currency exchange		AG	Working on it	<input type="radio"/> Nov 1		
	Detect Coin circles in differe...		JS JR	Working on it	<input type="radio"/> Nov 1		
	Differentate coins		JS JR	Working on it	<input type="radio"/> Nov 1		
	Add up coin values		JR JS	Working on it	<input type="radio"/> Nov 1		
	+ Add						

Sprint 2	Owner	Status	Due Date	Priority	Tags
Send photo to backend		Future	<input type="radio"/> Nov 15		
Process image, send back in...		Future	<input type="radio"/> Nov 15		
NodeJS		Future	<input type="radio"/> Nov 15		
+ Add					

Sprint 3	Owner	Status	Due Date	Priority	Tags
Using the app alot		Future	<input type="radio"/> Oct 29		
Doing various testing		Future	<input type="radio"/> Oct 29		
Fixing problems		Future	<input type="radio"/> Oct 29		
+ Add					

Sprint 4 (Testing)	Owner	Status	Due Date	Priority	Tags
Making things look nicer (if ti...		Future	<input type="radio"/> Dec 2		
Fixing bugs		Future	<input type="radio"/> Dec 2		
+ Add					

Open Tasks	Owner	Status	Due Date	Priority	Tags
Milestone 2		Working on it	<input checked="" type="radio"/> Oct 18	Urgent	#milestone
Recognize Coins in Test Ima...		Working on it	<input checked="" type="radio"/> Oct 18	Medium	#imagerecognition
Recognize coins in multiple t...		Working on it	<input type="radio"/> Oct 25	Low	#imagerecognition
Recognize different coin types		Future	<input type="radio"/> Nov 1	Low	#imagerecognition
LEARN SWIFT		Working on it	<input checked="" type="radio"/> Oct 18	High	#LearnSwift
Plan out App		Working on it	<input checked="" type="radio"/> Oct 18	Medium	
Make Basic App		Future	<input type="radio"/> Oct 25	Low	
Integrate image recognition ...		Future	<input type="radio"/> Nov 8		
Coin Database		Future			
+ Add					