

CSC 214

Portfolio

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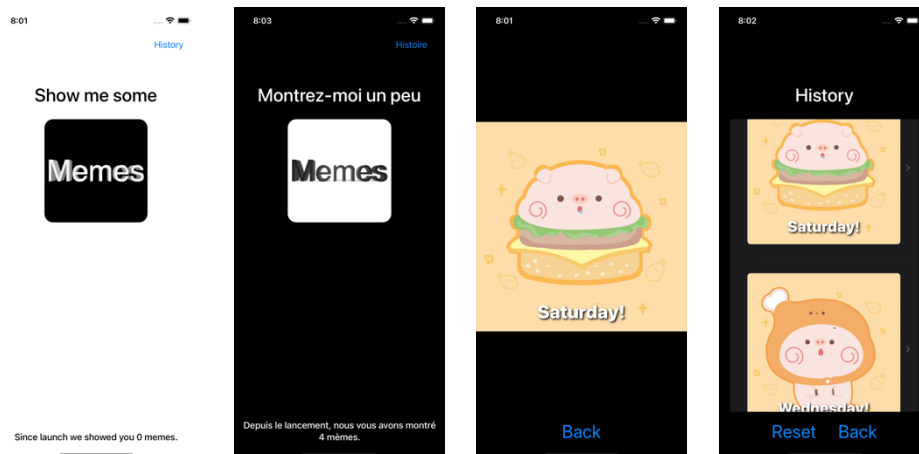
December 12, 2022

Project 1

Memes



A meme generator app that randomly makes a meme with a caption each time



1. Made my app can be presented as dark mode.
2. Added a history view that keeps a list of all generated memes (as navigation links), and users can tap them to see the original full-size memes.
3. Add a "Reset" button at the bottom of the history view that can clean up all generated memes and reset the app.
4. Localized in French (also the app name), so it will present "Mèmes" when the system is in French.

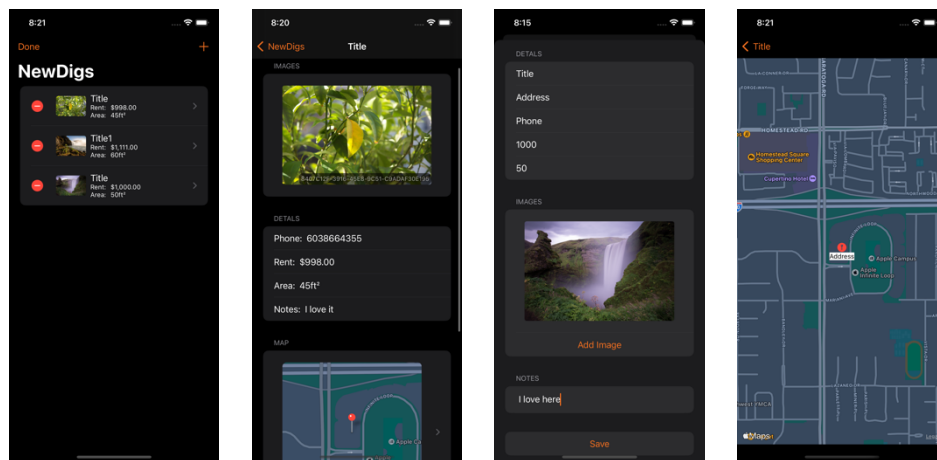
Localization, this is the beginning of everything, and the end is localization. There's not much to say about this program, but I've since tweaked it, and my wife loves it.

Project 2

Memes



A NewDigs app that allows users to add/delete apartments with their images and Information



1. Allow users to add more images for an add apartment view
2. Change entity image from Binary Data to Transformable [Data]
3. Modify the PhotoPicker to allow the new picked image be append to an array of images.
4. Allow users also to delete images for an apartment before save
5. Images will be presented as a for each loop in the view. Add a onDelete() function and a deleteImage() function to delete the picked images in the list.
6. Modified the map view and add a full map view.
7. In the apartment view there is a smaller version of map view in the form as a navigation link to the full map view very similar the FindMe 2.
8. Localized all user-faced strings to Germany
9. Localized all formatters. Used a measurement formatter for the area/sqft.

This is my favorite program besides item 3. It's nothing fancy but functional. In this program, I learned how to read pictures from the album, the advanced operation of the list, and more importantly, the display of the map. All in all, it's pretty cool.

Course Project

Don't Hit the Rocky



A Fruit Ninja-like game that incorporates the school mascot Rocky



1. Two game modes: Classic and Zen
2. Lots of animation
3. Relaxing music and sound effects
4. File storage

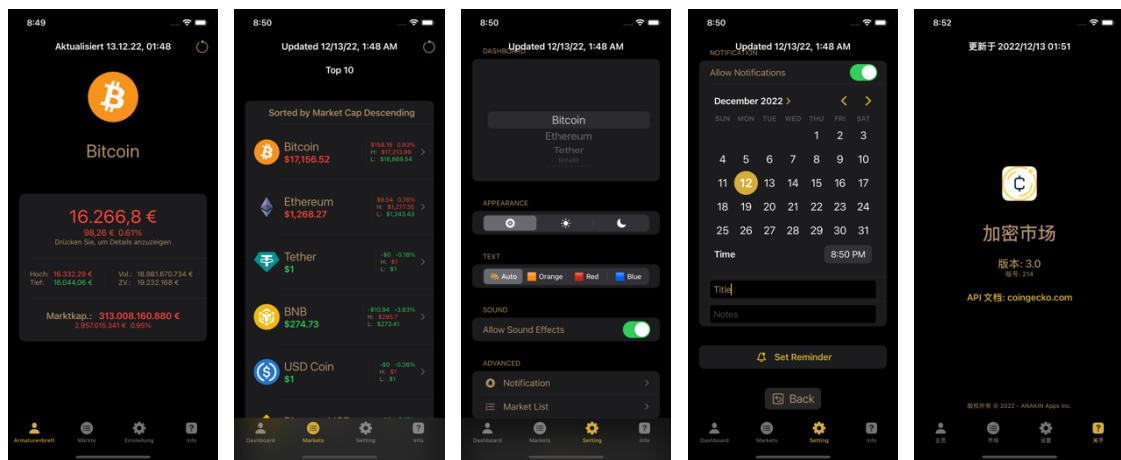
Don't Hit the Rocky is Team Nil's course project parodying the hit game, Fruit Ninja. It centers around slicing fruits to accumulate points while avoiding making mistakes like missing fruits or slicing our beloved mascot, Rocky! Our app features two game modes: Classic and Zen. Classic challenges the user to slice fruits for as long as possible until they run out of lives or slice Rocky down. Zen is intended to be a bit more relaxing, allowing the user to miss fruits if needed, but replacing the life system with a timer. Users will try to score as high as they can within the allotted time. Both game modes feature a tracker to record their personal bests for each mode, as to allow for replicability and improvement.

Project 3

Crypto Market



A Stocks-like app tells you everything about the crypto currency market



1. Custom Icon, Launch Screen, Dark Mode Support
2. Custom Colors x4, AccentColor, Red, Orange, Blue
3. View animations x4, 2 for image flip in CoinView() & InfoView(), 1 for refresh button rotation in ContentView(), 1 for detail text scale transition in CoinView()
4. API Content Full Screen Views x3, A default detail view and a list view link to another detail view for the list item
5. SettingsView with AppStorage x8, symbol, sort by, order, load amount, color scheme, text color, allow notifications, allow sound
6. Info View localized
7. Alert x1, tap the "Reset" button in the setting tab
8. ActionSheet x1, tap the "Api Doc." link blow the build number
9. UNUserNotification x1, go to Setting -> Notification turns on the "Allow Notifications" and tap the "Set Reminder" button after filling in at least the title
10. Custom Feature x2, 4 sound effects, localization in 3 language: English, (German (Germany)), (Chinese, Simplified (China mainland)), all currency relative properties will change depending on them.

It a Stocks-like app but about the crypto currency called Crypto Market. It allows you to follow your coins and the markets. View quotes and daily performance in customizable watchlists and tap any ticker to see an interactive chart and key details.

Conclusion

This semester has been the most fun CS class I have ever taken. This class changed many of my misconceptions and stereotypes about Apple systems. Especially the Course Project, which is the only program I have completed through self-study. It took me three days to finish it. Although I didn't win an award, I don't regret it at all. Project 3 took me three full days to complete. It took so long not because of coding difficulties, but because a lot of time was spent on design and creativity. Thank you so much for your company this semester. Merry Christmas!