

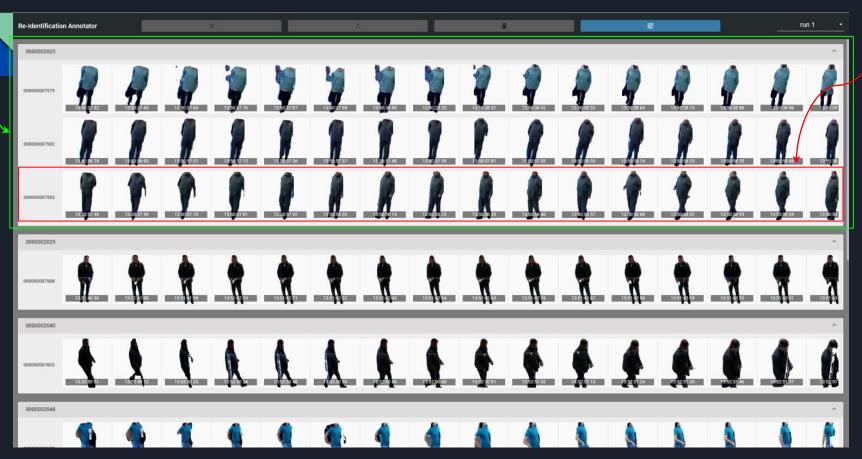
Takwa Daghbouj

Project Overview

- Web app built for Tempo Analytics
- Assists a human annotator in manipulating image data sets
- Images are obtained from a deep learning algorithm which track customers while they're in the business premises
- Allows annotators to filter, move and delete images



Folder



Technologies Used

- Angular Frontend
- Python Backend with Flask
- Runs on Ubuntu 20.04 Machine
 - Requested by Client
 - Also runs on Windows and Mac
- PyTest for Unit Testing
- GitHub actions to automate builds
- Runs on Chrome and Firefox







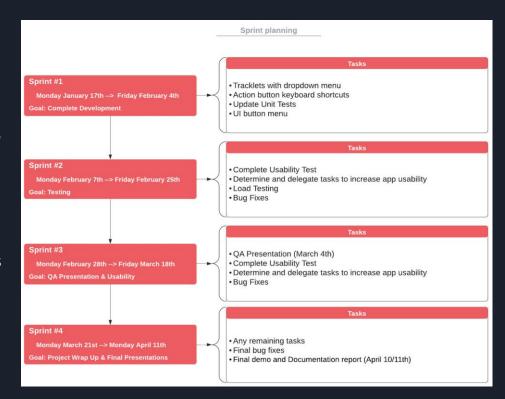






Project Planning

- Implemented a sprint plan
- Met with client weekly to obtain feedback, ask questions, and set out weekly tasks
- Utilized github issues for bug tracking and assigning tasks
- Met all milestones
- Application fully meet client's expectations



Quality Assurance

- Unit Testing

- Tests run as code is committed to the repo with Continuous Integration
- Load Testing
 - To determine impact on performance from image load
- Usability Test
 - Test 1 Score: 17.2 / 28
 - Test 2 Score: 24.6 / 28

Person Re-Identification Annotator (PRA) Usability Test 2 Summary		
Usability Guideline	Usability Obstructions	Average Score
Visibility of system status	 Does not show errors thrown by Python in the terminal Endless spinner after time filter applied and when no results found Loading status could be improved, currently new items pop up after a few second of background loading 	(2+3+3+2+4)/5 = 2.8
Match between system and the real world		(4 + 4 + 4 + 4 + 4) / 5 = 4
User Control and Freedom		(4 + 4 + 4 + 4 + 4) / 5 = 4
Consistency and standards		(4 + 4 + 4 + 4 + 4) / 5 = 4
Flexibility and efficiency of use	- Would prefer an optional scrollbar to scroll rows with lots of images	(4 + 4 + 4 + 3 + 4) / 5 = 3.8
Aesthetic and minimalist design		(4 + 4 + 4 + 4 + 4) / 5 = 4
Help users recognize, diagnose, and recover from errors	 Time filtering not working properly, doesn't seem to load proper images Pagination would solve performance issues Error received after merging tracklets 	(0 + 2 + 2 + 4 + 2) / 5 = 2
'	24.6 / 28	

Lessons Learned

- Scope creep
- Embrace agile workflow
- Consistent requirement gathering
- Setting clear expectations
- Writing testable code as project scales

Thank You

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