

#securemanufactureui

CSC 591, Spring 2020


Stage 3 – Choose




Team:




#	Name	Unity Id
1	Tushar Himmat Dahibhate	tdahibh
2	Yang-Kai Chou	ychou3
3	Rajshree Jain	rjain27
4	Satanik Ray	sray7
5	Ankit Arvind Tiwari	atiwari4

Display and Votes:

Before meeting professor or client, we list down our ideas on a shared word file without writing our names on it. After a deadline that was fixed, we started to vote.

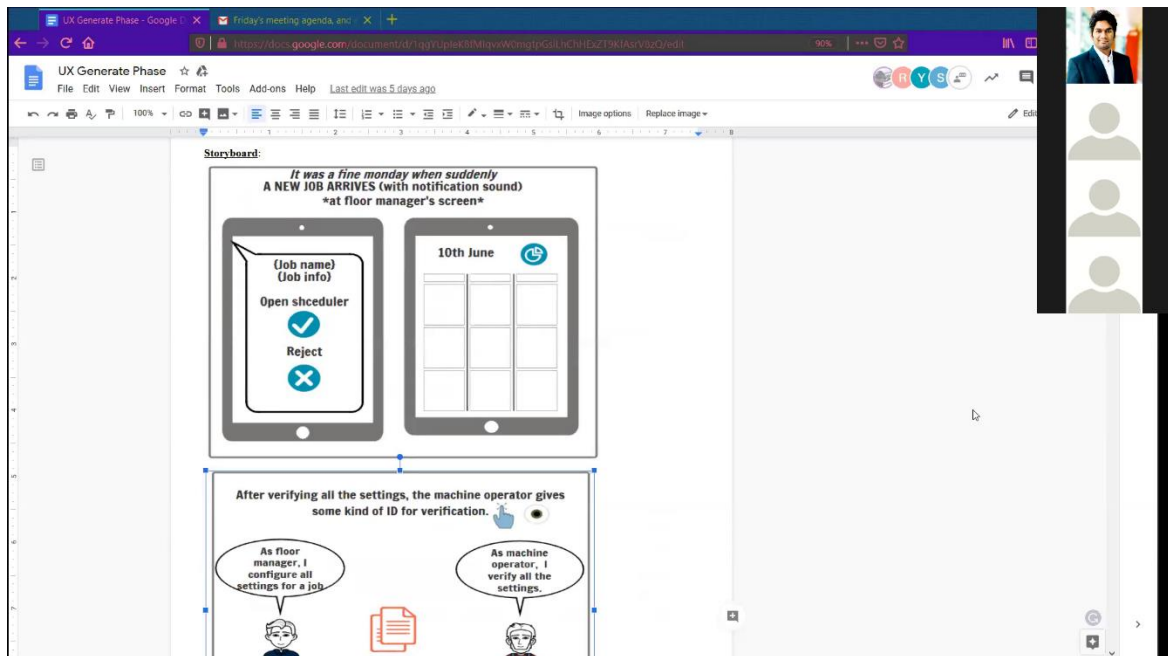
Votes are indicated by: 

1. Asset Management – Adding/Removing a machine
 - Provides an interface to add and remove any machine.
 - Has a functionality to authenticate a technician and maintain a paper trail.
 - Provides a wizard to ensure all the installation/uninstallation steps are followed and, maintains a log of any action performed.
2. Asset Management – Scheduling maintenance
 - Provides an interface to schedule maintenance of the machines.
 - Has a functionality to authenticate the technician performing any maintenance or calibration activities and maintain a paper trail.
 - Provides a wizard to ensure all the maintenance/calibration steps are followed and, maintains a log of any action performed.
3. Asset Management – View machines
 - Provides a functionality to view all the active and inactive machines as well as their detailed information.
 - The interface also contains a dashboard highlighting all the key performance indicators.
4. Log file for recovery  
 - Provides a functionality to access the job logs
 - This would be particularly useful in case of job failures and errors for data recovery
 - Also, paper trail being an important part of the SAMM functionality, logs would play an important part in accountability and audit.
5. Configuration 
 - Provides a functionality to access the job configurations or pre-requisites

- This would be particularly useful for automated job runs where the configurations can be centrally monitored and needn't be entered individually for jobs of same class
6. Calendar
 - Schedules and timeslots are an important part of the application, hence imperative to maintain schedule effectively. This functionality would provide that.
 7. Dashboard / Monitoring 
 - This provides comprehensive information on jobs, job statuses, job types, job executions, node usage, etc.
 - This would be particularly useful for report generation
 8. Assigning Security Levels
 - Floor manager gets the ability to assign access policies to the Operators
 - Enabling restricted access to the SAMM users
 9. Secure File Transfer
 - Allows a secure file transfer channel for the CAD files.
 - Would prevent from the usage of flash drives and chances of file getting corrupt.
 10. Troubleshooting Wizard 
 - Would provide sufficient help in form of virtual assistance to resolve different issues
 - Determine the seriousness of the issues based on the problem being faced
 11. Connect to SAMM by your remote device (mobile, laptop, PC etc.)
 - Give you access to the SAMM machine from far
 - Allow you to manage the tasks from away and only go to the machine for necessary tasks
 12. Multifactor Authentication
 - Ensures secure access to the SAMM machine
 13. Over the top animations 
 - To convey the severity of a task by showing graphics corresponding to the severity.
 14. Multiple level of abstraction of error details
 - Will give operator the power to choose between how much detailed they want their errors to be shown.
 15. Eye, finger or card for authentication
 - They are quick and secure.

Meeting

After that, we had zoom meeting. The meeting was held via zoom on Friday, 3rd April 2020. The members of the meeting were above-mentioned team-members, Prof. Watson and Elijah Morgan from Secmation.



During the meeting, all the ideas were discussed, and following ideas were recognized as the most essential one:

1. Calendar
2. Alert
3. Wizard
4. Two factor Authentication
5. Configure/audit

Decider's votes

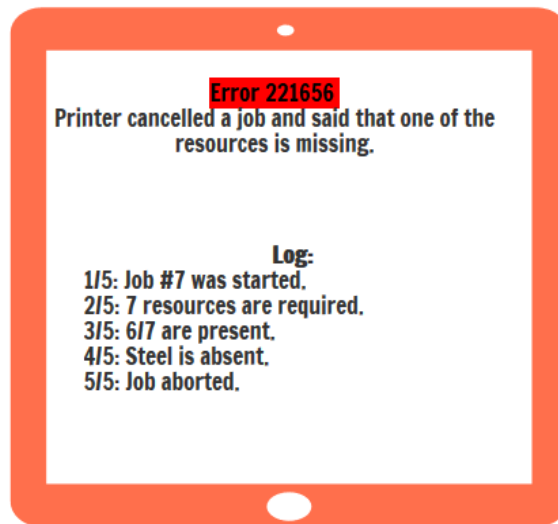
Following is a transcript of the voting session:

We all got one vote and Elijah got 3 votes.

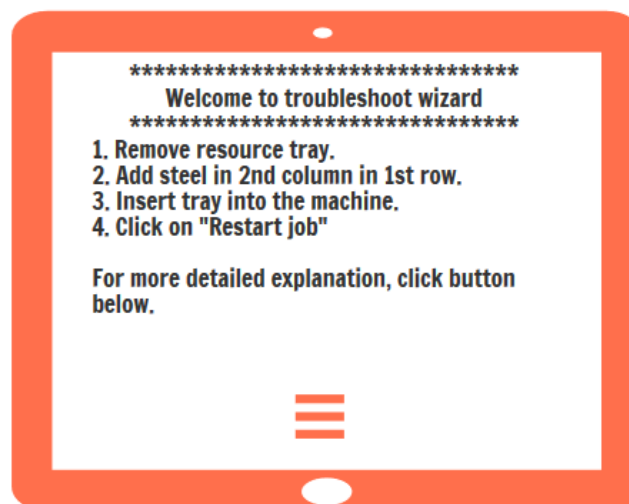
14:52:09 From Ben Watson : 1) calendar
14:52:12 From Ben Watson : 2) alert
14:52:15 From Ben Watson : 3) wizard
14:52:28 From Ben Watson : 4) two factor auth
14:52:47 From Ben Watson : 5) configure/audit
14:54:37 From Tushar Himmat Dahibhate: 3
14:54:39 From Yang-Kai : 1
14:54:42 From Ankit Arvind Tiwari : 3
14:54:48 From Satanik Ray: 5
14:54:51 From Elijah Morgan : 2) 1
3) 1
5) 1
14:54:56 From rjain27 : 3.
14:55:33 From Ben Watson : 1: 1
14:55:37 From Ben Watson : 2: 0
14:55:44 From Ben Watson : 2: 1
14:55:55 From Ben Watson : 3:4
14:56:06 From Ben Watson : 4: 0
14:56:13 From Ben Watson : 5: 2

As seen, option 3 and 5 got the most votes and hence, we have chosen those as to concentrate for our storyboard and next phase.

Storyboard:



* operator clicks on error (in red) to trouble shoot *



* a more detailed wizard opens *

