CPS353 Software Engineering Proposal

Group Details

Group Number	0x (01, 02, 03, …)
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Proposal Details

1.	**Project**	
1.1	Proposed Project Title	Covid Testing Site
1.2	Summary	A portal to be used at Covid-19 testing sites to collect, organize, and maintain data regarding test samples from organizations looking to provide testing services for their employees and visitors for the dangerous and rapidly growing Covid-19 virus outbreak
2.	**Target Audience**	
2.1	Field	Healthcare, K-12 Schools, Colleges/Universities, Government/Municipal Facilities, Retail Stores, Any organization with testing mandates in place
2.2	Age Group	N/A
2.3	Rating	G
3.	**Features**	
3.1	Useful Features	The software will allow an organization to monitor the status of its employees/visitors/faculty/staff. It's designed for organizations with mandates in place where funds are in place to provide regular and routine testing services - and the organization, the proposed "customer" of our software package, will have access to check the test results and use this information to control access to the buildings on their campus. The software package would have 4 levels of user access: 1. Patient User a. The person taking the weekly tests. The Patient will have access to check their own weekly test results and utilize a self-service account recovery menu with options for forgot username/forgot password. This user has the most limited access.

		2. Health Staff/Volunteer User/Employee
		a. The person who is collecting test samples. The Employee will have access to create new patients and enter new test samples via the serial number on the test tube.
		3. Laboratory User
		a. The person who is performing the testing of the samples. The Lab user will have the ability to record the status of each test, ie positive/negative.
		4. Doctor
		a. The person who verifies the result and provides a final "stamp of approval" on the test indicating it's ready to be viewed by the patient. The Doctor will have access to edit the result of the test and sign the test.
		5. Super User
		a. The person acting as the "IT Support Staff" for the users of the system. This user will have full access to all the functionality described above as well as the additional ability to create/delete accounts, modify account data, modify test data, and reset passwords.
4.	***Software / Languages***	
4.1	Software	Apache, MySQL, phpMyAdmin (XAMPP), Notepad++, Sublime Text, Adobe Dreamweaver
4.2	Language	HTML/CSS/Javascript + SQL/PHP
4.3	Purpose of languages / software (mentioned above)	- HTML/CSS/Javascript for front end web gui - MySQL/phpMyAdmin for database management - PHP used for interaction between front-end web gui and back-end mysql database