

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	Colleges/Universities
2.2	Age Group	N/A
2.3	Rating	G
3.	Features	
3.1	Useful Features	<p>The software will allow an organization to track the status of its faculty, staff, and students. It's designed for organizations with mandates in place to provide regular and routine testing services. The system has email notification features to send emails with test results to patients as well as a designated department of the university that maintains student accounts and access.</p> <p>The software package would have 6 levels of user access:</p> <ol style="list-style-type: none">1. "Non logged on" User<ol style="list-style-type: none">a. The person who has not yet logged into the system will have minimum access to the login page itself as well as the password reset page.2. Patient User<ol style="list-style-type: none">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

		<p>options for forgot username/forgot password. This user has the most limited access.</p> <ol style="list-style-type: none"> 3. "Vendor" / "Employee" User <ol style="list-style-type: none"> 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. 4. Laboratory User <ol style="list-style-type: none"> 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. 5. Doctor <ol style="list-style-type: none"> 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. 6. Super User / Admin <ol style="list-style-type: none"> 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, and modify test data. <p>Email verification process for new account creation</p> <p>Email functionality to send results emails to properly verified patient accounts</p>
4.	Software / Languages	
4.1	Software	Apache, MySQL, phpMyAdmin (XAMPP), Notepad++, Sublime Text, Adobe Dreamweaver
4.2	Language	HTML/CSS + SQL/PHP
4.3	Purpose of languages / software (mentioned above)	<ul style="list-style-type: none"> ● HTML/CSS for front end web gui ● MySQL/phpMyAdmin for database management ● PHP used for interaction between front-end web gui and back-end mysql database