






















T	Key	Summary	Story point estimate	P	Risk	Parent	Status	Description
	COV-25	As a Patient, I want to update my status, so that I can keep my Doctor updated	13		High	 Status Management	TO DO	<p>Definition of done: A patient should be able to submit their custom doctor defined status report once a day.</p> <div> <p>Requirements:</p> <p>UI Prototype:</p> <ul style="list-style-type: none"> “Submit status report page” <ul style="list-style-type: none"> Input fields for all details should be defined Submit button Should be added to navbar for patients <p>Front end:</p> <ul style="list-style-type: none"> “Submit status report page” <ul style="list-style-type: none"> When the page loads query the API to get a key value pair of which fields the patients have to fill out (true) and filter out the fields they are exempt from (false) <ul style="list-style-type: none"> {fieldName: boolean} Submit the form with all fields (including exempt), fields that the user is exempt from should be null Page should show an error if the form is submitted more than once in the same day by the user <ul style="list-style-type: none"> This error will come from the back end, just display it Page should only be available to the PATIENT role Should be added to navbar for patients <p>API:</p> <ul style="list-style-type: none"> Endpoint to query status report fields for a patient <ul style="list-style-type: none"> GET to /patient/:patientId/status/fields Body: none Add route verification for “patientId in route is patientId in JWT” Query status_fields table to get fields for the user Returns status 200 and key value pairs <ul style="list-style-type: none"> {fieldName: boolean} Endpoint to submit status report for a patient <ul style="list-style-type: none"> POST to /patient/:patientId/status Body: {fieldName: value} Add route verification for “patientId in route is patientId in JWT” Insert into statuses Returns status 201 <p>Database:</p> <ul style="list-style-type: none"> New table called statuses which has a column for user_id, created_on, and a column for each possible field <ul style="list-style-type: none"> Primary key is a composite of user_id and created_on Fields should be nullable and each field not submitted by the user should be set to null <p>Personas (accessible by)</p> <ul style="list-style-type: none"> Patient </div>




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	COV-26	As an Admin, I want to assign a Patient to a Doctor, so that I can manage the Patients	5		Medium	 Patient Management	TO DO	<p>Definition of done: There should be a page for an admin to assign a patient by user Id to a doctor by user Id.</p> <div><p>Requirements:</p><p>UI Prototype:</p><ul style="list-style-type: none">• Input field for patient userId• Input field for doctor userId• Submit button• Should be added to navbar for admins<p>Front end:</p><ul style="list-style-type: none">• Page should on be accessible to admins• Should be added to navbar for admins<p>API:</p><ul style="list-style-type: none">• POST to /patient/:patientId/doctor• Body: doctorId• Add route verification for admin role only• Returns status 201<p>Database:</p><ul style="list-style-type: none">• Add new column assigned_doctor_id to patients table that is a foreign key to a doctor_id in the doctors table<ul style="list-style-type: none">◦ This column will hold the passed value of doctor id for the patient<p>Personas (accessible by)</p><ul style="list-style-type: none">• Administrator</div>
	COV-27	As an Admin, I want to view how many Patients a Doctor has, so that no Doctor has too many Patients	5		Low	 Patient Management	TO DO	<p>Definition of done: There should be a page for admins to view were they can see a list of doctors and the number of patients each has.</p> <div><p>Requirements:</p><p>UI Prototype:</p><ul style="list-style-type: none">• List view page with a column of doctor names, doctor user ids, and the number of patients• Should be added to navbar for admins<p>Front end:</p><ul style="list-style-type: none">• Page should only be accessible to admin role• Should be added to navbar for admins<p>API</p><ul style="list-style-type: none">• GET to /doctor/patient_count• Add route verification for admin role only• Returns status 200<ul style="list-style-type: none">◦ List of key value pair {doctorName, doctorId, patientCount}<p>Personas (accessible by)</p><ul style="list-style-type: none">• Administrator</div>





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	COV-85	As an Admin, I want to add roles to users, so that I can manage access rights	13		Medium	 Authentication and Authorization	TO DO	<p>Definition of done: An Admin user should be able to add roles to a user by user id through the "add roles" page.</p> <div><p>Requirements:</p><p>UI Prototype:</p><ul style="list-style-type: none">• Page only accessible by admin role• Input field for userId• Check boxes (multi select) for roles to be added• Should be added to navbar for admins<p>API:</p><ul style="list-style-type: none">• New endpoint to add roles to a user<ul style="list-style-type: none">◦ POST to /user/:userId/role◦ Body: list of roles to be added◦ Should create row in corresponding tables for each role passed with the userId◦ Add route verification for admin role only◦ Returns status 201◦ Should be added to navbar for admins• Update sign up flow to add default role of USER to all users accounts created<p>Database:</p><ul style="list-style-type: none">• Add new tables for all role types<ul style="list-style-type: none">◦ types<ul style="list-style-type: none">▪ patients▪ doctors▪ health_officials▪ immigration_officers▪ admins◦ These should only have a primary key {role_singular}_id that is also a foreign key to the users table<ul style="list-style-type: none">▪ Example: patient_id, doctor_id, admin_id, etc<p>Personas (accessible by):</p><ul style="list-style-type: none">• Adminstrator</div>

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	COV-90	As an Admin, I want the API to authorize users by role, so that access rights are managed	8		High	 Authentication and Authorization	TO DO	<p>Definition of done: Routes on the front end and back end should have easy to use helper function to manage access rights.</p> <div><p>Requirements:</p><p>Front end:</p><ul style="list-style-type: none">• Should store roles in redux and cookies/local storage• Should have a helper function that can be applied to routes to limit access to certain roles by the values in redux and if the user is logged in or not<ul style="list-style-type: none">◦ <code>isAuthorizedForRole(["ADMIN"])</code>◦ <code>isLoggedIn()</code><p>API:</p><ul style="list-style-type: none">• Sign In and Sign Up API should return<ul style="list-style-type: none">◦ JWT which should contain<ul style="list-style-type: none">▪ <code>userId</code>◦ list of the user roles◦ <code>userId</code>◦ first and last name• Should have a helper function that can be applied to API endpoints to limit access to certain roles by the value passed in the authorization header and if the user is logged in or not<ul style="list-style-type: none">◦ <code>{{Authorization: Bearer Unknown macro: {token} }}}</code>◦ <code>isAuthorizedForRole(["ADMIN"])</code>◦ <code>isLoggedIn()</code><p>Personas (accessible by)</p><ul style="list-style-type: none">• Administrator</div>

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	COV-95	As a Doctor, I want to define the status report fields for my Patients, so I can properly track them	8		High	 Status Management	<div>TO DO</div>	<p>Definition of done: A doctor should be able to define the list of fields their patients must fill out for the status report.</p> <div><p>Requirements:</p><p>UI Prototype:</p><ul style="list-style-type: none">“Define status report for patient page”<ul style="list-style-type: none">input field for patient user idCheck list (multi select) from master list of acceptable fields<ul style="list-style-type: none">temperatureweightlist of symptomsTBD, needs to be refinedsubmit buttonShould be added to navbar for doctors<p>Front end:</p><ul style="list-style-type: none">“Define status report for patient page”<ul style="list-style-type: none">On submission should send a payload to the back end of a list of key value pairs for which fields are active (true) and which fields are disabled (false) for the user<ul style="list-style-type: none">{fieldName: boolean}Page should only be available to the DOCTOR roleShould be added to navbar for doctors<p>API:</p><ul style="list-style-type: none">Endpoint to submit status report fields for a patient<ul style="list-style-type: none">POST to /patient/:patientId/status/fieldsBody: {fieldName: boolean}Add route verification for “patient is assigned to doctor” onlyReturns status 201<p>Database:</p><ul style="list-style-type: none">Create a table <code>status_fields</code> that has a column for a <code>patient_id</code> and columns for each possible status report field<ul style="list-style-type: none">The status report field columns will have a type of boolean NOT NULL<ul style="list-style-type: none">true if its assigned to the patientfalse if its not<p>Personas (accessible by)</p><ul style="list-style-type: none">Doctor</div>

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	COV-107	As a Patient, I want to input my COVID test results, so that I can report if I tested positive or negative	8		High	 Patient Management	TO DO	<p>Definition of done: A patient should be able to submit a form that details the results of an externally taken Covid test to persist the data in the system.</p> <div><p>Requirements:</p><p>UI Prototype:</p><ul style="list-style-type: none">• Should contain form fields<ul style="list-style-type: none">◦ Test result◦ Type of test◦ Location of test◦ Date of test◦ To be refined• submit button<p>Front end:</p><ul style="list-style-type: none">• Add page to navbar “submit test result”• Implement all form fields and data validation• Should only be accessible by patients<p>API:</p><ul style="list-style-type: none">• POST to /patient/:patientId/test• Body: Fields of form with input• Should check patient id in jwt is patient id in path param• Store result in new db table• Return status 201<p>Database:</p><ul style="list-style-type: none">• Create new db table test_results<ul style="list-style-type: none">◦ Columns for<ul style="list-style-type: none">▪ testId primary key▪ patientId▪ all other form fields</div>

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	COV-113	As a Doctor or Health Official, I want to view a line item list of my patients with their most recent line item status update, so that I can keep track of any updates	5		Medium	 Status Management	TO DO	<p>Definition of done: A doctor should be able to view a page with a line item list of their patients most recent status updates and a health official should be able to view a page with a line item list of all the patients most recent status updates.</p> <div> <p>Requirements:</p> <p>UI prototype:</p> <ul style="list-style-type: none"> The design for both doctors and health officials should be the same Should be a table list view should only show the most important fields of the status not a detailed view <p>Front end:</p> <ul style="list-style-type: none"> Both doctors and health officials should use the same page the only difference will be the data provided by the back end. The list items should not be clickable, adding a clickable detailed view for each patient is added in another story <p>Back end:</p> <ul style="list-style-type: none"> Endpoint for a doctors patients status will include a doctorId query parameter <ul style="list-style-type: none"> GET to <ul style="list-style-type: none"> <code>{{/patient/status?doctorId=Unknown macro: {doctorId}&latest=true}}</code> <code>/patient/status?latest=true</code> Body: None Add route verification for “is health official or does doctor id in query param match id in JWT” Return the latest status for each patient (filtered by doctor id when doctor id passed) <ul style="list-style-type: none"> Each status should contain all necessary info to populate the front end table Returns status 200 <ul style="list-style-type: none"> List of patient statuses </div>

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	COV-123	As a Doctor or Patient, I want to be able to view a line item list of my COVID test results, so that I'm aware of my diagnosis	5	✓	Medium	 Patient Management	TO DO	<p>Definition of done: A patient should be able to access a page with a line item list of their covid test results.</p> <div> <p>Requirements:</p> <p>UI Prototype:</p> <ul style="list-style-type: none"> Should be a table with the important info about a test result <ul style="list-style-type: none"> positive / negative date of test type of test <p>Front end:</p> <ul style="list-style-type: none"> Should implement UI design Should only be accessible to patient role <p>API:</p> <ul style="list-style-type: none"> GET to <code>/patient/:patientId/test</code> Body: None Check if patient id is the same id as in the JWT Return status 200 <ul style="list-style-type: none"> List of covid test results ordered by date desc (newest at the top) </div>
✓	COV-146	Setup a Dockerfile for the front end and integrate it with docker-compose	2	≡	Low	 Project Infrastructure	TO DO	<p>Requirements:</p> <p>We need to create a Dockerfile for the client side React application so that configuring the development environment is easier.</p> <p>This should also be adding to the docker-compose file where it depends on the server. This way we can start all our docker containers i.e. our local development environment with a single command.</p>
✓	COV-147	Setup snapshot testing for the front end using Jest	1	✓	Low	 Project Infrastructure	TO DO	<p>Requirements:</p> <p>We want to be able to generate snapshot stubs of our UI components and test against them. We already have the Jest testing framework installed and running. We just need to setup the snapshot testing component and add a npm script in the package.json file to run them.</p>