**Unit Test Plan: “Pass” Class from class diagram**

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| Test Case | Attributes/ variables used | Method and Parameters | Expected Output |
| Generate QR Code successfully | crownpassID = “c77290302”  VaccinationStateColour = “White”  InfectionStateColour = “Green” | GenerateQRcode(crownpassID : String, VaccinationStateColour : String, InfectionStateColour : String) | QR code image should be generated. QR Code should include the correct crowpassID, vaccine state and infection state. |
| Generate QR Code unsuccessful | crownpassID = error  VaccinationStateColour = error  InfectionStateColour = error | GenerateQRcode(crownpassID : String, VaccinationStateColour : String, InfectionStateColour : String) | QR Code should not be generated and display an ERROR. |
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| Print Pass on Paper Success | QRCODE | PrintPass(QRCODE : IMAGE) | QR code should be printed on a piece of paper. |
| Print Pass on Paper unsuccessful. |  | PrintPass(null : IMAGE) | ERROR Message. QRCODE should not be printed. |
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| Set the vaccination state colour to white | From state class:  stateColour = “white” | setVaccinationStateColour(stateColour : String) | Vaccination State set to White. |
| Set the vaccination state colour to white | From state class:  stateColour = “light blue” | setVaccinationStateColour(stateColour : String) | Vaccination State set to light blue. |
| Set the vaccination state colour to white | From state class:  stateColour = “dark blue” | setVaccinationStateColour(stateColour : String) | Vaccination State set to dark blue. |
| set vaccination colour to null | From state class:  stateColour = “” | setVaccinationStateColour(stateColour : String) | Display error. |
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| Set the infection state colour to green | From state class:  stateColour = “green” | setInfectionStateColour(stateColour : String) | Infection State set to Green. |
| Set the infection state colour to amber | From state class:  stateColour = “amber” | setInfectionStateColour(stateColour : String) | Infection State set to Amber. |
| Set the infection state colour to red | From state class:  stateColour = “red” | setInfectionStateColour(stateColour : String) | Infection State set to Red. |
| set infection colour to null | From state class:  stateColour = “” | setInfectionStateColour(stateColour : String) | Display error. |
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| Get the crownpass Holders ID and set the local crowpassID variable CORRECTLY. | crownpassID | getCrownpassID()  setCrownpassID(crownpassID :String) | Local crownpassID should match logged in users ID. |
| Get the crownpass Holders ID and set the local crowpassID variable INCORRECTLY. (check error handling) |  | getCrownpassID()  setCrownpassID(null :String) | Show error. Log user out. |
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| Get Holders PHOTO from another class and set it as a local variable CORRECTLY. | Photo | getPhoto()  setPhoto(Photo : IMAGE) | Photo now accessible by Pass class. |
| Get Holders PHOTO from another class and set it as a local variable INCORRECTLY. (check error handling) |  | getPhoto()  setPhoto(null : IMAGE) | Show error. Log user out. |
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