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| Component | Crownpass Holder App |
| Description | This is the holder app which contains all the services to fulfil all use cases. It connects to the Crownpass SaaS cloud |
| Type | Subsystem |
| Required Interfaces | Display Pass, Register, Search User, Check State, Check Trace, Check-in / Out, Search Bookings, Book vaccination. |
| Provided Interfaces | Notify |

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| Interface Name | Register |
| Provider | Crownpass SaaS Cloud |
|  | Operation: Register(); |
| ***Request Parameters:*** PhoneNumber, email, homeAddress, firstName, lastName, Gender, DoB, Photo  ***Response Parameters:*** CrownpassID, if Successful; errorMessage, if Failure  ***Function:*** Check User has atleast uploaded a unique real photo (required). If yes, return a CrownpassID; else display an error message. Holder registration information will be stored in Holder Data Manager. |
|  | Operation: login(); |
| ***Request Parameters:*** CrownpassID  ***Response Parameters:*** If login success, display menu options. If fail, show error message.  ***Function:*** Check CrownpassID exists in Holder Data Manager, return error if does not exist. |

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| Interface Name | web access |
| Provider | Crownpass SaaS Cloud |
|  | Operation: searchCrownPassUser(); |
| ***Request Parameters:*** CrownpassID  ***Response Parameters:*** PassState, ContactDetails, MovementTrace, if Successful; errorMessage, if Failure  ***Function:*** Check inputed CrownpassID matches a real user. If yes, return a PassState, ContactDetails, MovementTrace; else display an error message. |
|  | Operation: resetHolderData(); |
| ***Request Parameters:*** CrownpassID  ***Response Parameters:*** able to reset certain details, if CrownpassID is correct. If fail, show error message.  ***Function:*** Check CrownpassID exists in Holder Data Manager, allow data to be reset and update the holders information. return error if does not exist. |

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| Interface Name | Notify |
| Provider | Crownpass SaaS Cloud |
|  | Operation: notify(); |
| ***Request Parameters:*** amoutOfVaccines, infectionstate.  ***Response Parameters:*** if state changes; update notifcationMessage.  ***Function:*** If any holder state changes (amoutOfVaccines, infectionstate), update and send notification message to holder. else do nothing. |

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| Interface Name | Check State |
| Provider | Crownpass SaaS Cloud |
|  | Operation: getState(); |
| ***Request Parameters:*** VaccineID, infectionID  ***Response Parameters:*** amountOfVaccines, infectionsState, if Successful; errorMessage (no states exist), if Failure  ***Function:*** Check if Holder has had any vaccines (0, 1 or 2). Check if holder has an infection state (no infection, suspected infection, confirmed infection). If no states match the test case, display an error message. If yes, get both states. |
|  | Operation: SetStateColour(); |
| ***Request Parameters:*** amountOfVaccines, infectionsState  ***Response Parameters:*** stateColour, if success; errorMessage, if failure.  ***Function:*** Check if amountOfVaccines is 0,1 or 2; assign the relevant colour. Check if infectionState is no infection, suspected infection or confirmed infection; assign the relevant state colour. If failure; ErrorMessage. |
|  | Operation: displayStates() |
|  | ***Request Parameters:*** stateColour  ***Response Parameters:*** display stateColour for vaccination and infection, if success; errorMessage, if failure.  ***Function:*** Display either white, light blue or dark blue for vaccines, Display green, amber or red for infection states. If failure; ErrorMessage. |

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| Interface Name | Check Trace |
| Provider | Crownpass SaaS Cloud |
|  | Operation: DisplayTrace(); |
| ***Request Parameters:*** date, time  ***Response Parameters:*** TraceID, date, time, area if Successful; errorMessage, if Failure  ***Function:*** Check where holder has been in a selected period (sequence of areas). If a result exist, display it. If no results, display “no results found”. |

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| Interface Name | Check-in / Out |
| Provider | Crownpass SaaS Cloud |
|  | Operation: Check-in(); |
| ***Request Parameters:*** ControlledArea, dateCheck-in, timeCheck-in, crownpassID  ***Response Parameters:*** If check-in success, display successMessage. If fail, show error message.  ***Function:*** Holder manually enters check-in data. If controlled area exists, add check-in to Holders trace. return error if does not exist. |
|  | Operation: check-out(); |
| ***Request Parameters:*** ControlledArea, dateCheck-out, timeCheck-out, crownpassID  ***Response Parameters:*** If check-out success, display successMessage. If fail, show error message.  ***Function:*** Holder manually enters check-out data. If controlled area exists, add check-out to Holders trace. return error if does not exist. |

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| Interface Name | Search Bookings |
| Provider | Crownpass SaaS Cloud |
|  | searchBookings(); |
| ***Request Parameters:*** vaccineLocation  ***Response Parameters:*** vaccineLocation, vaccineTime, VaccineDate, if Successful; errorMessage, if Failure  ***Function:*** Search Booking data Manager for relevant vaccineLocations, dates and times of bookable slots. Return location, date, and time. If failure, return ErrorMessage. |

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| Interface Name | Book Vaccinations |
| Provider | Crownpass SaaS Cloud |
|  | Operation: bookVaccine(); |
| ***Request Parameters:*** vaccineLocation, vaccineTime, vaccineDate, crownpassID  ***Response Parameters:*** bookingID, if Successful; errorMessage, if Failure  ***Function:*** Submit booking details to vaccinator. Vaccinator responds with bookingID. Booking is stored in Booking Data Manager. |

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| Interface Name | Display Pass |
| Provider | Crownpass SaaS Cloud |
|  | Operation: displayPass(); |
| ***Request Parameters:*** QRCODE, Photo  ***Response Parameters:*** Displays QRCODE, and Photo if Successful; errorMessage, if Failure  ***Function:*** Check user has QRCODE which represents VaccinationStateColour and infectionStateColour. If yes, display QRCODE and Photo of holder. If no; display ErrorMessage. |
|  | Operation: generateQRcode(); |
| ***Request Parameters:*** VaccinationStateColour, infectionStateColour  ***Response Parameters:*** QRCODE if successful. ErrorMessage if Failure.  ***Function:*** Get VaccinationStateColour and infectionStateColour and merge them into a QRCode. QRCODE is stored in database. If no states exist, give ErrorMessage. |