**Crownpass Vaccinator : Overall Architecture Diagram**

Specification of Components & Connectors (Interfaces):

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| Component | Crownpass Vaccinator App |
| Description | This is a subsystem that the operational staff use to access their microservices |
| Type | Subsystem |
| Required Interfaces | Booking Results |
| Provided Interfaces | Login  Manage Account  Record Vaccine  Add/View/Remove Booking  View Timetable |

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| --- | --- |
| Interface Name | Login |
| Provider: | Crownpass SaaS Cloud |
|  | Operation: login() |
| Request Parameters: username, password,  Response Parameters: sessionID  Function: Check if the username matches the username on the database and then compares the password for the account and password give. If successful then gives the user a SessionID which is saved in the cookie if not successful just redirects them back to home page. |

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| --- | --- |
| Interface Name | Manage Account |
| Provider: | Crownpass SaaS Cloud |
|  | Operation: manageAccount() |
|  | Request Parameters: staffAccount()  Response Parameters: N/A  Function: this function allows the staff member to manage their account by accessing the staffAccount class. |

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| Interface Name | Record Vaccine |
| Provider: | Crownpass SaaS Cloud |
|  | Operation recordVaccine() |
| Request Parameters: createVaccine()  Response Parameters: firstVaccineState, secondVaccineState  Function: this function allows the staff member to record the vaccine by using the createVaccine constructor to put all the details in and then outputs the state of how many vaccines the user has had. |

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| Interface Name | Add/View/Remove Booking  Booking Results |
| Provider: | Crownpass SaaS Cloud |
|  | Operation: addBooking() |
| Request Parameters: Booking()  Response Parameters: N/A  Function: this function allows the staff member to add a booking to the system by using the booking constructor but can also be used by the holder. |
|  | Operation: viewBookings() |
| Request Parameters: timeslot, date  Response Parameters: Booking()  Function: this function allows the staff member to search for a booking via timeslot and date and then displays the constructers getters |
|  | Operation: ~removeBookings() |
| Request Parameters: crownpassID, Booking()  Response Parameters: N/A  Function: this function allows to search for a booking via the id of the holder and then delete it with the constructor by using the setters |

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| Interface Name | View Timetable |
| Provider: | Crownpass SaaS Cloud |
|  | Operation: viewTimetable() : staffTimetable |
| Request Parameters: N/A  Response Parameters: Timetable()  Function: This function allows the staff member to display the timetable belonging to their account |

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| Component | Crownpass Vaccinator Manager App |
| Description | This is a subsystem that the managers use to access their microservices |
| Type | Subsystem |
| Required Interfaces | StaffID |
| Provided Interfaces | Login  Create Staff Account  Create Timetable  View Timetable  Add Staff  View Bookings |

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| --- | --- |
| Interface Name | Login |
| Provider: | Crownpass SaaS Cloud |
|  | Operation : Login() |
| Request Parameters: username, password  Response Parameters: managerSessionID  Function: Check if the username matches the username on the database and then compares the password for the account and password give. If successful then gives the user a Manager SessionID which is saved in the cookie if not successful just redirects them back to home page. |

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| Interface Name | Create Staff Account |
| Provider: | Crownpass SaaS Cloud |
|  | Operation: createStaffAccount() |
| Request Parameters: staffAccount()  Response Parameters: N/A  Function: this function allows the user to add the staff to the system. |

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| Interface Name | Create Timetable |
| Provider: | Crownpass SaaS Cloud |
|  | Operation: createTimetable() |
| Request Parameters: timetable, timetableDate()  Response Parameters: N/A  Function: this function allows the user to create a timetable for the vaccine center that it chooses and then using other functions within that function creates the timetable with automated dates and time slots |

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| Interface Name | View Timetable |
| Provider: | Crownpass SaaS Cloud |
|  | Operation: viewTimetable() |
| Request Parameters: timetable  Response Parameters:  Function: this function takes the timetable object and view it to the user in a correct format so its easy to read and looks professional. |

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| Interface Name | Add Staff  Staff ID |
| Provider: | Crownpass SaaS Cloud |
|  | Operation: assignStaff() |
| Request Parameters: assignStaff()  Response Parameters:  Function: this function allows the user to add the staff to the timeslot when the timetable is created but it is set as an optional function so staff doesn’t have to be always assigned to the timeslot created |

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| Interface Name | View Bookings |
| Provider: | Crownpass SaaS Cloud |
|  | Operation: viewBookings() |
| Request Parameters: vaccineStation, Booking()  Response Parameters: Booking()  Function: this function allows the user to view all the bookings by searching for the vaccine station and then displaying all dates and times |

Specification of Databases:

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| Database Name | Vaccinator Data Manager |
| Description | The Database that stores information about the operational staff and the services that they use |
| Type | Relational Database |
| Design | Tables: Vaccines, Bookings, Timetable, Vaccinator |
| Table: Vaccines | Fields: VaccineID, VaccineName, Date, VaccineBatchNumber, VaccineStation |
| Table: Bookings | Fields: BookingID, BookingName, Timeslot, Date, CrownpassID |
| Table: Timetable | Fields: TimetableID, Date, Timeslots |
| Table: Vaccinator | Fields: Name,Photo,DoB,Gender,Address,PhoneNumber,Email,Password |

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| --- | --- |
| Database Name | Vaccinator Manager Data Manager |
| Description | The Database that stores information about the vaccine manager and the services that they use |
| Type | Relational Database |
| Design | Tables: Timetable, Bookings, Vaccinator |
| Table: Timetable | Fields: TimetableID, StaffID, VaccineStationName, Date, Timeslots |
| Table: Bookings | Fields: BookingID, BookingName, Timeslot, Date, CrownpassID |
| Table: Vaccinator | Fields: Name,Photo,DoB,Gender,Address,PhoneNumber,Email,Password, StaffID, Title |