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| Component | Record vaccination |
| Description | This is a microservice running on the Cloud to process user requests related to vaccination record |
| type | Microservice |
| Required interface | Vaccination ID |
| Provided interface | Record vaccination |

System component testing, class testing and interfaces

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| Component | Manage booking |
| Description | This is a microservice running on the Cloud to process requests related to managing user booking. |
| type | Microservice |
| Required interface | User booking |
| Provided interface | User session |

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| Component | Operational staff manager |
| Description | This is a microservice running on the Cloud to process requests related to the operational staff manager |
| type | Microservice |
| Required interface | Manage user |
| Provided interface |  |

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| Component | Authentication |
| Description | This is a microservice running on the Cloud to process user requests related to table authentication |
| type | Microservice |
| Required interface | Registration |
| Provided interface | Register, login |

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| Component | Vaccination registration manager |
| Description | This is a microservice running on the Cloud to process requests related to the vaccination manager |
| type | Microservice |
| Required interface | Record vaccination |
| Provided interface | Crownpass ID, date of vaccine, time slot of vaccine, name of vaccine |

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| Component | Registration management |
| Description | This is a microservice running on the Cloud to process requests related to the registration management |
| type | Microservice |
| Required interface | Manage user |
| Provided interface |  |

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| Component | Crownpass vaccine manager |
| Description | This is a microservice running on the Cloud to process requests related to  Crownpass vaccine manager |
| type | Microservice |
| Required interface | Edit booking |
| Provided interface | Vaccine batch number |

Interface testing

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| **Interface Name** | Login |
| **Provider** | Crown pass System SaaS |
|  | *Operation*: User Login; |
| *Request Parameters*: Username or ID, password  *Response parameters*: authentication, if Successful; error Message, if Failure  *Function*: Check if the customer’s password matches the stored password. If yes, return the authentication code; otherwise, an error message is returned. The authentication code will be stored together with the password. Access to secured functions and data will check the authentication code against the password address until it expires. |
|  | *Operation*: User registration; |
| *Request Parameters*: UserRegistationName, password.  *Response*: UserNameID, if registration is a success; otherwise, errorMessage  *Function*: The UserRegistrationName is checked to see if already been used. If not, the registration success and the userRegistationname and password are stored in the system; otherwise, it returns an error message. |

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| Interface Name | Vaccine Name |
| Provider | Crownpass SaaS |
|  | *Operation*: VaccineUsername; |
| *Request Parameters*: vaccine date, vaccine batch number  *Response parameters*: valid code, if Successful; errorMessage, if Failure  *Function*: Check if the vaccine is valid matches the stored code. If yes, return the confirmation code; otherwise, an error message is returned. The confirmation code will be stored together with the vaccine name. Further access to secured functions and data will check against vaccine records the stored until it expires. |
|  | *Operation*: manageUser; |
| *Request Parameters*: userDataUser.  *Response*: customerID, if registration is success; otherwise, errorMessage  *Function*: The customerUserName is checked to see if already used. If not, the registration success, and the username and password is stored in the system; otherwise, returns an error message. |

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| Test Case | Method and Parameters | Expected results |
| Get user account for vaccination | get UserAccount() | Crown pass ID |
| Get user vaccine date | getVccineDate() | To retrieve the vaccine date |
| Get user injection time | getInjectionTime() | To get injection time for user |
| Get vaccine batch number | getVaccineBatch() | To retrieve vaccine batch information |
| Vaccine station | getVaccineStation() | To retrieve information about the vaccine station/centre |
| Name of vaccination | getVaccinationName() | To retrieve the name of the vaccination |
| appointment | getAppointment() | To retrieve details of the user appointment |
| Crownpass vaccinator | getCrownPass() | To retrieve the information of the vaccinator |

Class testing