**Use Case Diagrams for Public Users**

**Public User Use Cases - Match**

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| **Use Case name:**  Match | | **ID:** | **Priority:**  High |
| **Primary actor:**  Public User | **Source:** | **Use case type:** | **Level:**  Overview |
| **Interested Stakeholders:**  Doctor, Researcher, Teacher, Patient, Medical Practitioner | | | |
| **Brief description:**  This use case describes matching SNP data in uploaded file with drug label, dosing guideline, clinical annotations and drug-variants annotations in database. In this use case, the user’s goal is to upload the file and see the matching results. | | | |
| **Goal:**  The successful file uploading and matching of the drug label, dosing guideline, clinical annotations and drug-variants annotations results. | | | |
| **Success measurement:**  The drug label, dosing guideline, clinical annotations and drug-variants annotations are displayed to the users and can be reviewed as acceptable for use and references. | | | |
| **Precondition:**  Public User has successfully register and sign in through authentication. | | | |
| **Trigger:**   * Users have data about SNPs and want to know the information of drugs and phenotypes related to these SNPs. | | | |
| **Relationships:**   * **Include: upload** * **Extend:** * **Depends on:** | | | |
| **Typical flow of events:**   * To upload the file containing SNP information. * Once uploaded, the data will be processed and matching results will be displayed. * To click on each tab to see matched results. | | | |
| **Assumptions:**   * It is assumed that the uploaded file accords to a standard vep/annovar file format. | | | |
| **Implementation Constraints and Specifications:** | | | |

**Public User Use Cases -Search**

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| **Use Case name:**  Search | | **ID:** | **Priority:**  Medium |
| **Primary actor:**  Public User | **Source:** | **Use case type:** | **Level:**  Overview |
| **Interested Stakeholders:**  Doctor, Researcher, Teacher, Patient, Medical Practitioner | | | |
| **Brief description:**  This use case describes searching information related to a certain combination of drugs and phenotypes from the matching results. In this use case, the user wants to see the result of searching. | | | |
| **Goal:**  The successful searching of the drug labels, dosing guidelines, clinical annotations and drug-variants annotations in matching results according to the input drug names and phenotype names. | | | |
| **Success measurement:**  The drug labels, dosing guidelines, clinical annotations and drug-variants annotations containing information about the input drug names and phenotype names are displayed to the users. | | | |
| **Precondition:**   * Public User has successfully register and sign in through authentication. * Public user has successfully upload file and see the matching results. | | | |
| **Trigger:**   * Users have seen the matching results of SNP data with large amount of drug annotations, and want to filter the results with specific drugs and/or phenotypes. | | | |
| **Relationships:**   * **Include:** * **Extend:** * **Depends on: Match** | | | |
| **Typical flow of events:**   * To input drug names and phenotypes interested in. * To click on each tab to see searched results. | | | |
| **Assumptions:**   * The input drug names and phenotype names are separated by comma. | | | |
| **Implementation Constraints and Specifications** | | | |

**Public User Use Cases -View Knowledge Base**

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| **Use Case name:**  View knowledge base | | **ID:** | **Priority:**  High |
| **Primary actor:**  Public User | **Source:** | **Use case type:** | **Level:**  Overview |
| **Interested Stakeholders:**  Doctor, Researcher, Teacher, Patient, Medical Practitioner | | | |
| **Brief description:**  This use case describes display of knowledge base containing drug labels, dosing guidelines, clinical annotations and drug-variants annotations. In this use case, the user wants to view the knowledge base. | | | |
| **Goal:**  The successful display of knowledge base containing drug labels, dosing guidelines, clinical annotations and drug-variants annotations. | | | |
| **Success measurement:**  All drug labels, dosing guidelines, clinical annotations and drug-variants annotations are displayed to the users. | | | |
| **Precondition:**   * Public User has successfully register and sign in through authentication. | | | |
| **Trigger:**   * Users want to know what drug labels, dosing guidelines, clinical annotations and drug-variants annotations information we have. | | | |
| **Relationships:**   * **Include:** * **Extend:** * **Depends on:** | | | |
| **Typical flow of events:**   * To click on each tab to see knowledge base for each annotation. | | | |
| **Assumptions:** | | | |
| **Implementation Constraints and Specifications** | | | |

**Public User Use Cases – Veiw Samples**

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| **Use Case name:**  Veiw Samples | | **ID:** | **Priority:**  High |
| **Primary actor:**  Public User | **Source:** | **Use case type:** | **Level:**  Overview |
| **Interested Stakeholders:**  Doctor, Researcher, Teacher, Patient, Medical Practitioner | | | |
| **Brief description:**  This use case describes displaying public samples of matching results available for all users to click and view. In this use case, the user’s goal is to choose the samples and view the corresponding matching results. | | | |
| **Goal:**  The successful redirecting to public sample page and the display of corresponding matching results. | | | |
| **Success measurement:**  After clicking on one public sample, the matched drug label, dosing guideline, clinical annotations and drug-variants annotations of this sample are displayed to the users and can be reviewed as references. | | | |
| **Precondition:**  Public User has successfully register and sign in through authentication. | | | |
| **Trigger:**   * Users want to know how the results of our precision medicine matching system will look like and what information they may get through matching. | | | |
| **Relationships:**   * **Include:** * **Extend: Match** * **Depends on:** | | | |
| **Typical flow of events:**   * To click on the “matching” buttons on the sample page to view each sample’s matching results. | | | |
| **Assumptions:** | | | |
| **Implementation Constraints and Specifications:** | | | |