2. Data dictionary (1.5 marks)

Create a partial data dictionary that describes all key data flows present in the dataflow diagram. Note that a complete data dictionary is not expected, however it is expected that the data dictionary includes all important information data flows and explains any that need additional clarification or decomposition.

Address Format = [(Sub-Premise) + Address Number | Address Number + (Sub-Premise)] + Street Name + Suburb + City/Town + (Sub Administrative Area) + Administrative Area + Post Code + Country

Residential Address = Address Format

Address Format Data Table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data Element | Description | Data Type | Length/Format | Example Data |
| Sub-Premise | Specific identifier for townhouses and apartments | String |  | B (23-B), 2 (102-2), Building 1 |
| Address Number | Numeric identifier of donor’s residence | String |  | 23 102 |
| Street Name | Donor’s street name and street type | String |  | Kirinari St. (Aus) Fifth Avenue (Manhattan, US) |
| Suburb | City district | String |  | Bruce |
| City/Town | City or town donor is from | String |  | Canberra London |
| Sub Administrative Area | Donor’s county, or district | String |  | Cheshire (England) San Diego County (US) |
| Administrative Area | Donor’s state, province, or region | String |  | NSW ACT |
| Postal Code | Donor’s postal code or zip code | String |  | 2601 (Australia) M3B 3S2 (Canada) |
| Country | Nation where donor resides | String |  | Australia  England |

Postal Address = [Residential Address | PO Box Address]

PO Box Address = First Name + Last Name + (Company/Organization) + PO Box Number + City/Town + Administrative Area + Country + Postal Code

PO Box Address Data Table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data Element | Description | Data Type | Length/Format | Example Data |
| First Name | Person’s given name | String |  | Bob Shalissa |
| Last Name | Person’s surname | String |  | Jones Smith |
| Company/ Organization | Company name if being sent to one | String |  | ACME Innovations Inc. |
| PO Box Number | Number of the post office box that the mail is being sent to | String |  | PO Box 1033 |
| City/Town | City or town donor is from | String |  | Canberra London |
| Administrative Area | Donor’s state, province, or region | String |  | NSW ACT |
| Country | Nation where donor resides | String |  | Australia  England |
| Postal Code | Donor’s postal code or zip code | String |  | 2601 (Australia) M3B 3S2 (Canada) |

Required Info = Donor Title + First Name + Last Name + Email + (Secondary Email) + Password + 1{Phone Numbers}\* + Residential Address + Postal Address

Once user is registered, Account Details = Required Info

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data Element | Description | Data Type | Length/Format | Example Data |
| Title | Form of addressing donor | String |  | Mr. Mrs. |
| First Name | Person’s given name | String |  | Bob Shalissa |
| Last Name | Person’s surname | String |  | Jones Smith |
| Email | Unique identifier for an email account | String |  | johnsmith@gmail.com |
| Secondary Email | Second email for security reasons | String |  | Johnsmith2@gmail.com |
| Password | String of characters required to access system | String |  | Password123 |
| Phone Number | Phone number including country and area code | String | +###-###-###-#### | +49-89-636-48018 |
| Residential Address | Where donor is currently living | Data Table |  | 74 Chandler St, Belconnen Canberra ACT 2617, Australia |
| Postal Address | Where donor’s mail goes | Data Table |  | Building 1, 11 Kirinari St, Bruce, Canberra ACT 2617, Australia |

Log-In Details = Email + Password