**1. Data Stores**

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| **Data Store** | **Description** |
| **Personal Data** | Stores applicant’s personal information such as name, date of birth, contact details, and identification documents. Also stores next of kin information which is needed by the tertiary institutions. |
| **Academic Data** | Contains the applicant's academic records, exam results, qualifications, and educational history. |
| **Programs Data** | Repository of program information including available university courses, requirements, and program structures. |
| **Payments** | Store payment details and proof of payment to be submitted when applying on behalf of the user. |
| **University Data** | Stores the information about the tertiary institutions supported by our platform. This information can be used by users when they want to reach out and confirm details. |

**2. Data Flows**

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| **Data Flow** | **Source** | **Destination** | **Description** |
| **Academic Data** | Applicant | Split symbols and text | Academic records submitted by the applicant for program evaluation and verification. The form has documents and text so we need to split that. |
| **Textual data** | Split symbols and text | Serialize and format | Upon splitting, we send the textual data to its own process. |
| **Symbols Document** | Split symbols and text | Run OCR | Upon splitting, we send the documents to its own process. To be verified and validated by the ministry of education. |
| **Formatted Data** | Serialize and format | Academic Data | Store the formatted data into the academic data store |
| **Text Symbols** | Run OCR | Academic Data | Store the extracted text in the database |
| **Top 3 Programs** | Shortlist Programs | Fill Application form | Top three program choices to be filled into the application form |
| **Academic Data** | Academic Data | Fill Application Form | Applicant’s academic, symbols, and school leaving information to be used in the application |
| **Tertiary Data** | University Data | Fill Application Form | The university data to be taken into consideration when filling the application form |
| **Personal Data** | Personal Data | Fill Application Form | Personal and next of kin data to be used in filling the application form |
| **Processed Form** | Fill Application Form | Send Application form | The completed form to be sent to the tertiary institution the user is applying to |
| **Application Copy** | Send Application From | Applicant | Copy of the application sent to the tertiary institution |
| **Proof of Payment** | Pay for Student Application | Send Application Form | Universities require proof of payment for the application fee |
| **Payment Details** | Payments | Pay for Student Application | First see if the user has paid before paying on their behalf |
| **Student Application** | Send Application Form | University | The actual application with all its necessities sent over to the tertiary institution. |
| **Admission status** | University (Process Admission Status) | Process Admission Status (Applicant) | Send the feedback from the tertiary institution pertaining our client’s application. (Inform the user of the university’s final decision) |

**3. Processes**

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| **Process** | **Description** |
| **Process Personal Data** | Validates and processes the applicant’s personal data for application purposes. |
| **Process Academic Data** | Processes and verifies the applicant's academic data by cross-checking it with external authorities, like the Ministry. |
| **Request Results Verification** | Sends the applicant’s academic results and exam details to the Ministry of Education for verification. |
| **Sieve Relevant Programs** | Matches the applicant's academic data with the available programs and recommends the best-fit programs. |
| **Shortlist Programs** | Helps the applicant select their top preferred programs based on recommendations. |
| **Process Application** | Collects and processes the applicant’s final program selections and sends the completed application to universities. |
| **Process Payment** | Manages the payment process for application submission, including verification and confirmation of payment. |

**4. External Entities**

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| **Entity** | **Description** |
| **Applicant** | High school graduate willing to apply to certain tertiary institution(s) and uses our centralized system to do that. |
| **Education Ministry** | The external body responsible for verifying the applicant’s academic results and qualifications. They have the actual truth for student results. |
| **University** | The institution receiving and processing the applicant's application and providing feedback on admission status. |