**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. |
| **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. |

**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 | Textula data is formatted according to the predefined statandard. |
| **Processed Academic Data** | Process Academic Data | Academic Data Store | Verified and validated academic data of the applicant. |
| **Results** | Sieve Relevant Programs | Applicant | Recommended programs based on the applicant's academic data and preferences. |
| **Programs** | Programs Data Store | Sieve Relevant Programs | List of programs retrieved from the system for comparison and shortlisting. |
| **Preferred Programs** | Applicant | Shortlist Programs | Applicant’s selected preferred programs. |
| **Top 3 Programs** | Shortlist Programs | Process Application | The top 3 shortlisted programs chosen by the applicant. |
| **Application** | Process Application | University | The application sent from the system to the university, including the personal and academic data. |
| **Admission Status** | University | Process Application | The university’s response on the admission status of the applicant. |
| **Application Copy** | Process Application | Applicant | A copy of the application sent to the applicant for record keeping. |
| **Result, Exam Details** | Request Results Verification | Education Ministry | Academic results and exam details sent to the Ministry for verification. |
| **Verification** | Education Ministry | Request Results Verification | Confirmation of the results and academic details from the ministry. |
| **Payment Info** | Applicant | Process Payment | Payment details submitted by the applicant for the application process. |
| **Invoice** | Process Payment | Applicant | A receipt or confirmation of payment sent to the applicant. |
| **Payment Confirmation** | Payments | Process Payment | Confirmation of the successful payment transaction received from the payment system. |

**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** | The user of the system who submits personal and academic data for scholarship or admission. |
| **Education Ministry** | The external body responsible for verifying the applicant’s academic results and qualifications. |
| **University** | The institution receiving and processing the applicant's application and providing feedback on admission status. |
| **Payments** | The external payment service provider responsible for processing application fees. |