Group No.: _____K_____   Project No.: _____11_____

Project Name : Visa Management System

PHASE - I

REQUIREMENTS DOCUMENT

I. MINIWORLD :

The Visa Management System is a type of Database Management System (DBMS) that is designed to manage and streamline the process of issuing visas to individuals who wish to travel to another country. The primary purpose of the system is to facilitate the visa application process by providing a centralized database of all visa applicants, their information, and the status of their applications.

When a visa application is received, it is reviewed by authorized personnel who can access all relevant information from the centralized database. Once the application is approved, the visa can be issued and the applicant's details are registered in the system.

The Visa Management System also allows for easy tracking of visa applications and provides up-to-date information on visa status. This ensures that applicants and authorized personnel can access the most current information regarding visa applications.

In case of any issues or problems with visa applications, the system provides a list of relevant contacts and resources for assistance. Overall, the Visa Management System helps to streamline the visa application process, making it faster, more efficient, and reliable.

II. DATABASE REQUIREMENTS :

When a person wants to apply for a visa, he/she has to get himself/herself registered in the Visa Management System. The Visa Management System must verify the eligibility of the applicant and check for any kind of reasons which make the applicant unsuitable for the visa (like criminal records, previous visa denials, medical conditions, etc.). If the applicant clears all the verifications and gets the approval by the registered officer, he/she becomes a registered applicant of the system and can apply for the visa whenever he/she wishes in the regular intervals according to the constraints of visa application. The Visa Management System stores all the details of its registered applicants.

The Visa Management System has several officers with required degrees and qualifications who are available in the system to verify the applicants.

When a registered applicant applies for the visa, the details of the application are stored in the system, along with the details of the applicant and the required documents. Every visa application has a unique number, which can be used to identify the application in the system.

When a decision for the visa application is made, the result is communicated to the applicant and the details are stored with the timestamp. If the visa is approved, the details of the visa are stored, and if it is denied, the reasons for denial are stored.

The Visa Management System needs to preserve the records of the visa applications and has to keep a check on the expiry of the visa. A visa is simply expired if it exceeds the date

of validity, or is cancelled due to any reason.

The system stores the details of the availability of the visa for each category in the system and updates it from time to time. For example, when a visa is approved, there is an increase in the total quantity of visas available, and when a visa is expired or cancelled, the total quantity of visas available gets decreased.

III. Constraints:

1. Every visa application must have a unique application number.
2. A visa application must contain at least one applicant, who must provide their name, passport number, date of birth, and nationality.
3. Each visa application must specify a type of visa (e.g., tourist, work, student) and a purpose of the visit (e.g., vacation, business, study).
4. Every visa application must include the date of submission and a status (e.g., pending, approved, denied).
5. Additional documents and information required for processing may be included with a visa application, along with a processing fee.
6. At least one visa officer must process each visa application, with each officer having a name and level of clearance.
7. A single visa officer may process multiple visa applications.
8. A visa application may go through multiple stages of processing before a decision is made.
9. Each decision made by a visa officer may include a reason (e.g., missing documents, criminal history) and an expiration date.
10. Each visa officer may work in a specific location.
11. Each visa officer may have a rank or job title (e.g. entry-level officer, senior officer, manager).
12. Each visa application can have multiple destinations and travel dates.
13. Each visa officer must have a workload limit (i.e., a maximum number of applications they can handle at once).

IV. APPLICATION REQUIREMENTS :

1. Addition of new visa applicants in the system.
2. Addition of new visa officers or staff in the system.
3. Registering and verifying the visa application of each applicant.
4. Updating the status of each visa application (e.g. approved, denied, pending, etc.).
5. Recording the personal and travel information of each visa applicant.
6. Updating the visa quotas and availability for each country or visa type.
7. Recording the issuance of visas to each approved applicant.
8. Updating the visa validity and expiration dates.
9. Displaying the list of all the visa applicants.
10. Displaying the list of all the visa officers or staff.
11. Displaying the visa status and progress for each applicant.
12. Displaying the visa quota and availability for each country or visa type.
13. Total number of visas issued in a specific time period.
14. Total number of visas issued by a specific visa officer or staff member.
15. Total number of visas issued for a specific country or visa type.
16. Number of visas issued for specific purposes, such as work or study.
17. Number of visas issued by visa category (e.g. single entry, multiple entry, etc.).