**Introduction**

This chapter describes the objectives of this report as well as the audiences who should have to go through this report for individual purposes.   
Purpose

This project is based on the requirements analysis for graduate verification system. It includes all over requirements to develop this system no matter whether they are functional or nonfunctional. The information about the requirements here have been organized well so that everyone can easily figure out a summarized concept about graduate verification system. The SRS serves as the official means of communicating user requirements to the developer and provides a common reference point for both the developer team and stakeholder community. The SRS will evolve over time as users and developers work together to validate, clarify and expand its contents.

The purpose of this project is to verify graduate students. This system will be used for validating graduate students of Institute of Information Technology of University of Dhaka. Here the end users are UGC staffs (Admin, Staff 1, Staff 2), University staffs (Registrar, Data entry operator 1, Data entry operator 2), Graduate students, Stakeholders (Foreign universities, Employers), Payment processing partners.

**Chapter 2: Inception**

In this chapter, we will discuss about the first step of Software Requirements Specifications Analysis, that is, Inception.

2.1 Introduction

Requirement Engineering comprises several sequential steps. Inception is the first one among them. Inception creates the entrance to the project for the requirements analysts. It refers them how the project should get started. It also provides a basic idea to the engineers about the problems ahead which are needed to be solved and how critical obstacles may come during the project. The main target of Inception phase is to identify the people related to the project and their needs. In order to complete this phase, we have focused on---

* Identifying Stakeholders
* Recognizing multiple viewpoints
* Working towards collaboration
* Asking the first questions

2.1.1 Identifying Stakeholders

**Stakeholders** are entities that have an interest in a given project. These stakeholders may be inside or outside an organization which:

1. Sponsor a project, or

2. Have an interest or a gain upon a successful completion of a project,

3. May have a positive or negative influence in the project completion

Stakeholders are given below:

1. UGC staff (Admin, staff 1, staff 2)
2. University staff (Registrar, data entry operator)
3. Graduate students
4. Foreign university
5. Payment processing partner

1.UGC staff: UGC staff can login into the system with email address, password. He/she can add university (name, location, website), university’s registrar with his/her information. UGC staff can generate report with all information (University wise, payment wise).

2. University staff:University staff (Registrar) will login into the system with his/her email address and password. In Registrar profile, he/she can view his/her personal information (Name, designation, university name), add, edit and delete student information, and add digital signature to verify graduate student information, which are pending for approval. Registrar can generate reports that belong to his/her university.

3. Graduate student: They are the main beneficial users of this system.

4. Foreign university: Foreign universities or employers can access the system to validate their candidate students’ information. First, they have to enter student’s name, registration number, university name, mobile number and email address. If students’ information is available in the system, then stakeholder need to provide his/her credentials- name, designation, organizations’ name, contact number and email.

5. Payment processing partner: They assist the system through processing the payment system.

2.1.2 Recognizing multiple viewpoints

Each stakeholder has his/her own viewpoint. I have talk to them to understand those viewpoints.

1. UGC staff viewpoints:

* He/she can add university (name, location, website), university’s registrar with his/her information.
* UGC staff can generate report with all information (University wise, payment wise).

1. University staff viewpoints:

* he/she can view his/her personal information (Name, designation, university name), add, edit and delete student information.
* He/she can add digital signature to verify graduate student information, which are pending for approval.
* Registrar can generate reports that belong to his/her university.

1. Graduate students’ viewpoint:

* They can get benefits from the system.
* They can stay connected through using the system.

1. Foreign university’s viewpoints:

* Can access the system to validate their candidate students’ information.
* need to provide his/her credentials- name, designation, organizations’ name, contact number and email.

1. Payment processing partners’ viewpoints:

* They process the payment system when needs.

2.1.3 Working towards collaborations

Every stakeholder has their own requirements. I have followed following steps to merge these requirements:

* identify the common and conflicting requirements
* Categorize the requirements
* Take priority points for each requirements from stakeholders and on the basis of this voting prioritize the requirements
* Make final decision about the requirements.

Common requirements:

* User friendly and efficient system
* Easy to use
* Authentication
* Database containing detailed information about users

Conflicting requirements:

We found some requirements conflicting each other. We had to trade-off between the requirements.

* No ambiguous requirement
* Easy access
* Strong authentication and high security
* No harmful effects on existing technology

Final Requirements:

Error free system (Maximum 5% error may be considerable)

* Web based application
* Accessible via internet
* Allow the users login and logout
* Restrict access to functionality of the system based upon user roles
* Allow administrators of the system to change user types and configure parameters of the system
* User friendly and efficient system
* Secure way to communicate
* Database contains all information.

2.2 Conclusion

In this project, we have established a basic understanding of the problem, the nature of the solution that is desired and the effectiveness of preliminary communication and collaboration between the stake-holders. More studies and communication will help both side (developer and client) to understand the future prospect of the project. We believe that the full functioning document will help us to define that future prospect.