# Introduction

Verscend Technologies is Nepal’s leading software development company. Yearly it has been hiring more than ------------- employees. Interviewees have to go through a series of processes to get hired. One of the most important processes is written examination. Till date Verscend has been conducting paper based written examination. With the implementation of V-Exam, Verscend is planning to digitalize the written examination making it online (hosted in internal server). Interviewees can login into the system and attend the examination from Exam Hall at Verscend.

# Objectives

* 1. The core objectives of V-Exam are as following.
  2. Digitalization of written examination process.
  3. Easy Interview Session and Examination management.
  4. Easy Examset assignment for job vacancy.
  5. Conduct Examination for multiple job vacancies at a time.
  6. Easy to check answers and publish results.

# Scope and Limitations

* 1. V-Exam is designed for Verscend Technologies’ employee hiring process.
  2. Operates in Verscend’s intranet system only.
  3. Two types of questions
     1. Subjective questions
     2. Objective questions (multiple choice)
  4. Admin to create examset with predefined exam duration for given set.
  5. Automatically check objective answers
  6. Manually check subjective answers
  7. Publish results.

# System Requirement Specification

## Functional System Requirement

This section gives functional requirements that are applicable to V-Exam.

V-Exam consists of two types of users

* Interviewee

Interviewee will login to the system and take his/her examination. The email address and contact number provided in CV will be the username and password for him/her. Once the interviewee logs into the system he/she will not be allowed to re-login and re-attend the exam in given interview session.

* Administrator

The following features will be available to the admin.

* + - * 1. Setup

Department

Admin can add, edit and delete departments.

Job Vacancy Titles

Admin can add, edit and delete most common job vacancies that Verscend hires. Eg. Software Engineer(Asp.net mvc), Database Administrator, IT support etc.

Question Complexities

Interview questions in an Exam set may be of different complexity level. Questions will be marked as per its complexity.

E.g. Simple question will be of 2 marks, medium question of 5 marks and complex question of 10 marks.

Question Categories

Exam set may include multiple questions from different categories. Admin can create, edit and delete question categories.

E.g. Asp.net, javascript, database, I.Q etc.

A exam set may have 10 questions from “Asp.net”, 5 questions from javascript, 2 questions from database and 3 questions from I.Q.

* + - * 1. Question Bank

Question bank is the collection of all the questions. Admin can add questions of different categories.

* + - * 1. Exam Sets

Exam set is a set of question interviewee gets when logged in. Admin can create exam set and add questions from question bank.

* + - * 1. Job Vacancies

Admin can add the jobs that Verscend announces vacancies for.

* + - * 1. Interviewees

Once admin (HR) gets CV of candidates, he/she adds the candidate as interviewee with basic details for current interview session. Interviewee’s email address and contact number provided in cv will be the username and password for him/her to log into the system and attend the exam.

* + - * 1. Interview Session

Interview Sessions are the employee hiring period. In a session there may be vacancies for multiple jobs. Admin creates a session with start date and end date. Interview Session gets expired after the end date of session. Admin adds job vacancies for the session and interviewees.

* + - * 1. Result

## Non Functional Requirements

# System Design

* 1. Context Diagram
  2. Flow chart
  3. Use case diagram
  4. Sequence diagram.