ADipIT02 – Object Oriented Design and Programming

TOPIC: employNepal

Group Name: The Rankers

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Submitted to: Raj prasad Shrestha

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1. Introduction

1.1 General Introduction

The advancement in technology has certainly affected every sector either in positive way or negative. Similarly, it has revolutionized the way people seek job or announce vacancies. Still though the traditional way of advertising has not vanished till now. But the trend of exploring the internet for the jobs and vacancies has upraised lately. The trend being able to succeed gaining the required talent under a common portal has benefitted its broadness.

"EmployNepal" is a web-based application, which brings the employers and suitable candidates together. Computerized online Job portal System is developed to facilitate general people and organization seeking for job and employee. (Evans, 2017)

The users can perform different tasks according to their need as listed below:

Employee:

 1. Employee can seek for preferred job as per his area of interest.

2. He can apply for the favorable job.

3. He can manage information and update resume. (Octal IT Solution LLP, 2019)

Employer:

1. An employer can create/edit profile details.

2. He can post job opportunities.

3. He can recruit employee as their qualification meets their requirements. (Octal IT Solution LLP, 2019)

1.1.1 Application of this project

❖ Job seekers wandering around get their destinated jobs recommendation within a single portal.
❖ Assessable in all kinds of tabs, laptops and electronic handheld electronic devices.
❖ It helps to reach the targeted group and peoples more effectively compared to the advertising done through the old-fashioned medias like newspapers and magazines and results in the participation of greater percentage of skilled applicants.
❖ It helps to match the offers and demands and better job positions and candidates gets better exploration.
❖ Compatible with major web browsers.
❖ Fully responsive web browsers.
❖ Since general peoples are not concerned with in-depth knowledge and technology, the designed system is highly user-friendly. (envatomarket, 2019)

This project seems to overcome different problems arise during the vacancies announcement to job filtering such as:

1. Unsuccessful announcement in case of remote areas.
2. Uncontrolled duplication of job opportunities.
3. spam mails.
4. Time Consuming
   (P, 2017)

1.2 Methodology

1.2.1 Agile Scrum

SDLC models are the set of principles and techniques followed during Software Development cycle. Among them, agile models are popular and considered safe. Agile simply implies the ability to develop and bring change instantly whenever required. This model is one of the approaches which is against the classical models creating the stable products.

1.2.2 How It Works?

Many Projects failed due to lack of proper data. so, the first step towards creating a standard product are the user stories. It helps to clarify the team about the expectation and demand of the user. Based upon the priority, sprints are categorized and with shorter iterations delivered to the customer ensuring achieved user story. Each iteration will go through all SDLC processes.
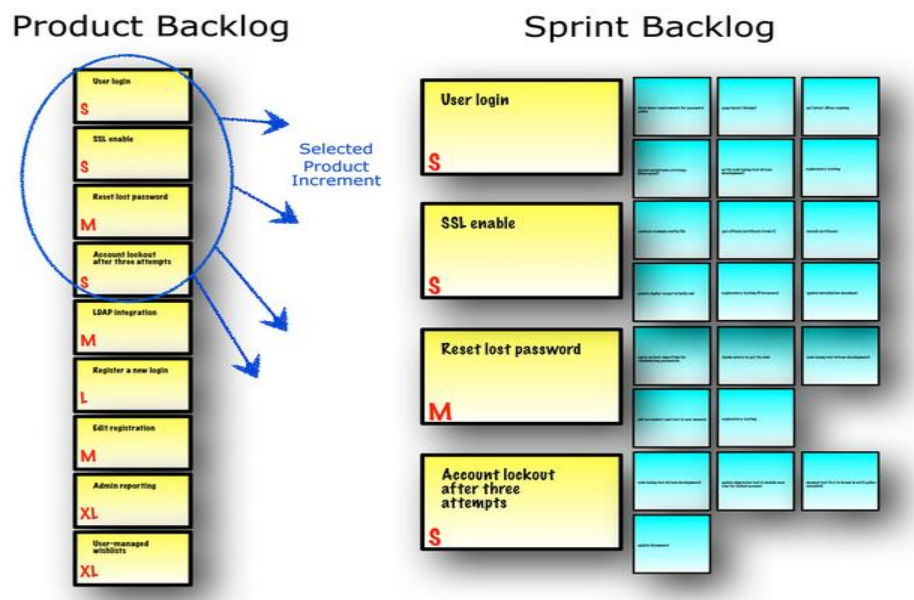

Figure 1 sprinting (360Logica, 2018)

From the Analysis of different surveys (Scrum Alliance, 2018) , Agile models has shown every sign of restricting the possible number of the problems during software development cycle. Among the different Software Development models, Agile models have overtaken the market being the company's first choice,
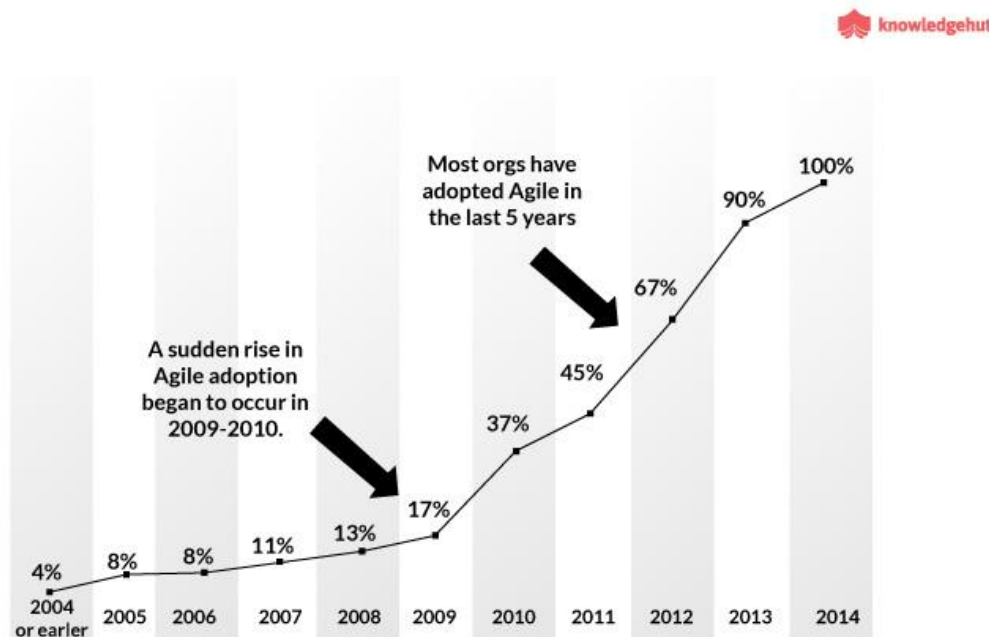

Figure 2 :rising trend of Agile Models (Carr, 2017)
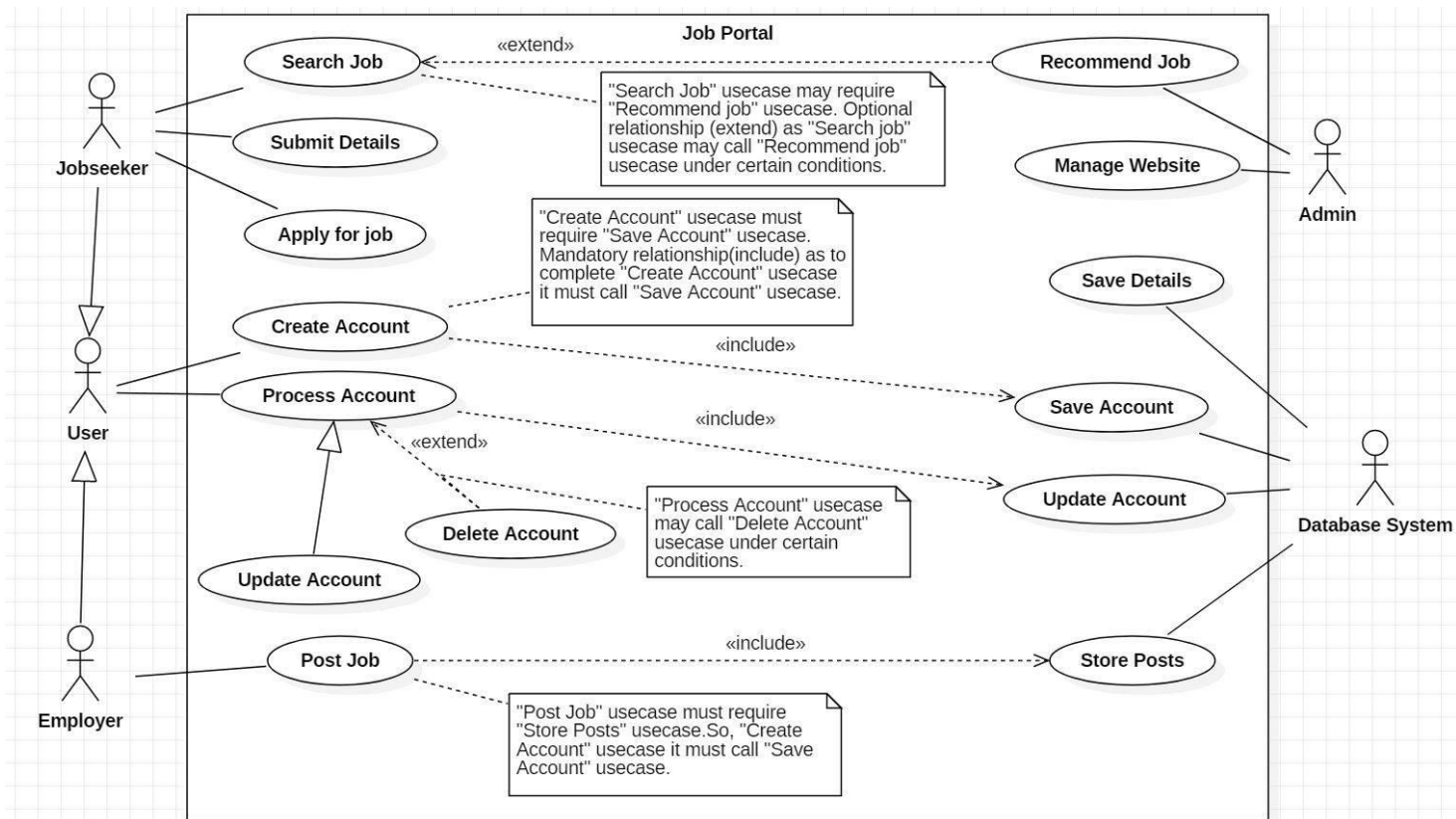
The Key Reasons for its demand are as listed below:

➢ The ability to amendment: The agile model follows incremental and iterative approaches, so it becomes easier to bring the change during SDLC.
➢ Constant feedback from the customer: Agile models consider customer as a prime part in a SDLC process. Thus, the regular delivery of product helps both developer and customer to fulfill their requirements and ensure product quality.
➢ Easier and cheaper debugging phase: Since the model responses to inevitable changes, the debugging at any phase becomes quite cheaper and easier.

- ➢ Regular meetings and monitoring: The developmental phase include both monitoring and interaction task so as to provide customer with the competitive and well-designed products. (tutorialspoint, 2019)

Despite of such a good result, agile models are not suitable for some cases. Some of the reasons or disadvantages of agile models are as below:

- ➢ High cost: The model emphasis on building the quality product using different sorts of manpower resulting in high cost. So, the smaller projects may not be worthy.
- ➢ Long time duration: The product may iterate multiple times applying the modifications which makes it unpredictable about the project completion.
- ➢ Failure due to lack of experience: Agile model may not be favorable among the newbie developers with lack of decision-making ability leading to project failure.
- ➢ Defective product: The customer representative with less knowledge may lead to a defective product. (Saksoft Company, 2018)
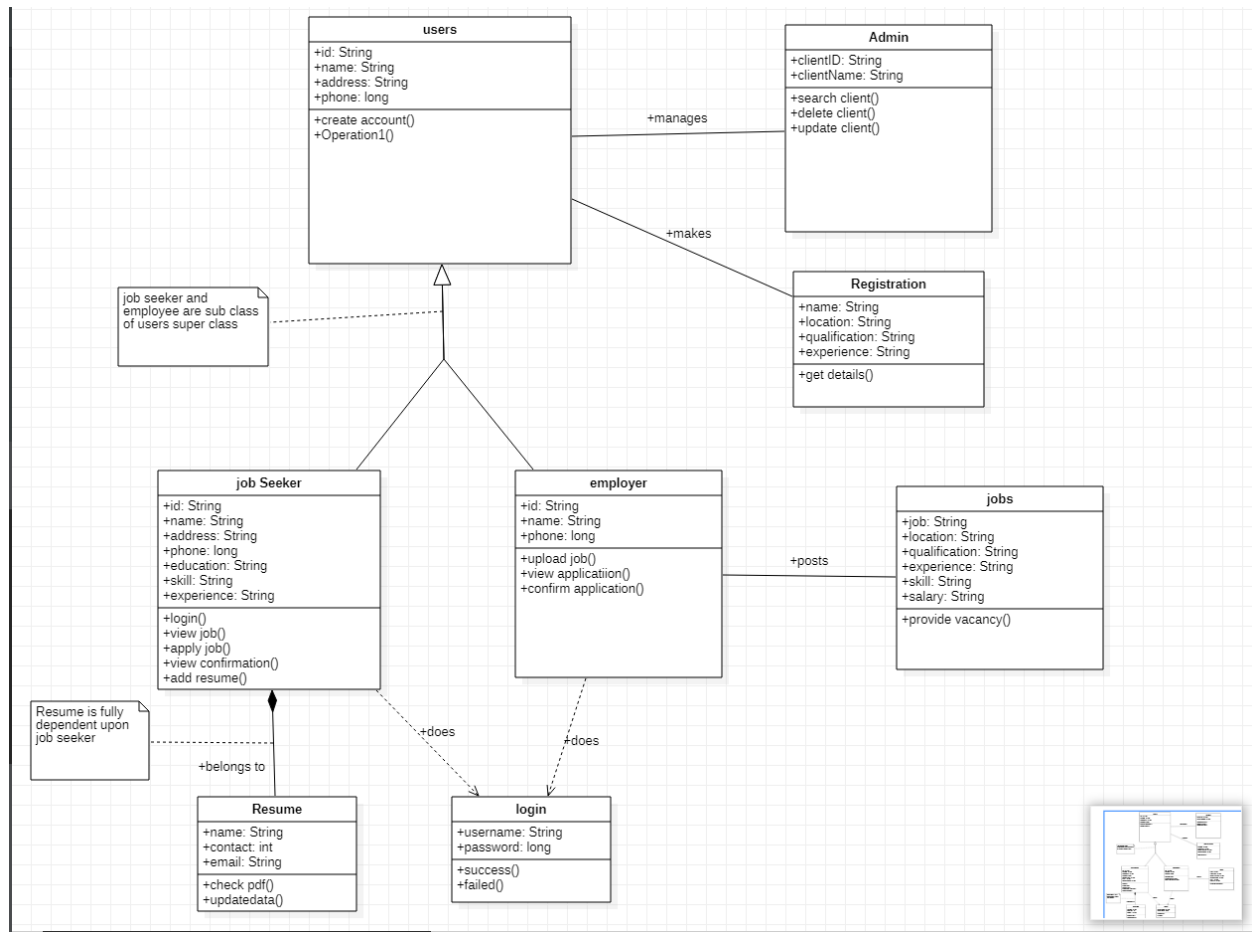
1.3 Use Case Diagram

1.3.1 About the use case scenario:

In Usecase Diagram, there are two actors: - Primary actor and Secondary actor. In which "User" is Primary actor and "Admin" and "Database System" are Secondary actor. In "User" there are two sub-actors: - "Jobseeker" and "Employer". Here "User" can use "Create Account" usecase to create account and "Process Account" usecase to edit account which are then store in "Database System". In "Process Account" usecase, "User" may use "Update Account" and "Delete Account" usecase which are then updated in "Database System". "Employer" can use "Post Job" to announce vacancy and "Jobseeker" can use "Apply for job", "Submit Details" and "Search job" usecases. Whereas "Admin" uses "Manage website" usecase to modify and manage the website and may uses "Recommend Job" usecase to recommend job vacancies to jobseekers as per their interest.

1.4 Class Diagram

In the class diagram there are six class and two sub-class. User, admin, registration, jobs, resume, login are the parent class and jobseeker and employer are the subclass of the class user. In this class diagram user and admin manages the jobs and the jobseeker. Here jobseeker and employer needs to login to get into the portal. Here employer post the job and jobseeker get to know and apply by logging in and send the resume if they get selected. In this diagram resume is fully dependent upon jobseeker.

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