# Faculty of Engineering

University of Ruhuna

## **Project Proposal**

Develop Work Assignment Algorithm

To Match Jobs With Current Workers

## **Group Members**

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## OVERVIEW

As technology is slightly developing in the world most databases are turning into computer-based databases. Many companies are still using manual databases to match jobs with current workers. In those kinds of systems, there are many inaccurate situations occur. Not only that, manual systems are time-wasting processes. Because there might be many errors when finding what kind of jobs are suitable for current worker's qualifications. As a solution to that problem, our group decided to create a system for such companies to match jobs with current workers very easily and accurately.

## METHODOLOGY

The proposed system is planned to build using an algorithm of C++ programming language and data structure concepts of that language.

First, a login page will be appeared, and need to log in as an admin and enter the names, ages, where's, education qualifications, and work experiences of each member. That will create all the current worker's information and categorize them according to their qualifications for each department of the company.

Administrative can find suitable qualifications for each department in the company and group the workers on what kind of abilities they have to work correctly in the workplace. All the details will be stored in a database of an array of objects.

After entering all the details system will require suitable qualification requirements for each department in the company. Then the system will automatically find what is the deserve department to work for workers.

On the worker side, there is a facility to log into the company administrative account and see what kind of qualifications is looked at by the company to select each department for workers. If there is any mistake the worker can inform the administration immediately.

## OBJECTIVES

There are a few main objectives of this project. They are mentioned below.

- ➢ Match jobs with current workers more accurately.
- ➢ Help the admin department to manage their work easily.
- ➢ Make a clear understanding between the workers and the company.
- ➢ Minimize hiring mistakes.
- ➢ Improve job satisfaction and productivity.
- ➢ Making the process easy for both ends without wasting time.