\documentclass{article}

\usepackage{textcomp}

\usepackage{lmodern}

\usepackage{ulem}

\usepackage{grffile}

\usepackage{amsmath}

\usepackage{amssymb}

\usepackage{graphicx}

\usepackage{caption}

\usepackage{microtype}

\usepackage[utf8]{inputenc}

%\usepackage[left=1.5in,top=1in, right=1in, bottom=1in]{geometry}

\usepackage[left=1in,right=1in,top=1in,bottom=1in, paperwidth =8.5 in, paperheight=11in]{geometry}

\usepackage{multicol}

\newcommand{\tabitem}{~~\llap{\textbullet}~~}

\renewcommand{\labelenumii}{\theenumii}

\renewcommand{\theenumii}{\theenumi.\arabic{enumii}.}

\date{}

\begin{document}

\noindent

\begin{center}\huge \textbf{KayaKo.PH: A job marketplace for PWDs}

\end{center}

\vspace{15mm}

\begin{multicols}{3}

\begin{center}

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\end{multicols}

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Mr. Heubert F. Ferolino\\

Adviser\\

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\begin{multicols}{2}

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\textbf{ABSTRACT}\\

In today’s society, technology has been very helpful to us in a lot of aspects. We can’t deny the fact that technology makes our lives much better. Technology have made our lives more efficient for the past decades. Through technology, we can make a solution to help PWDs to find and secure a job. We can also use it to provide an online community wherein PWDs can interact with each other. In that way, they will see their ability despite of their disabilities.\\

Finding a job is not easy, but how much more to those people who has disabilities? It is always extra challenging for them to find a job. Millions of people with disabilities face barriers to finding jobs. Our attitudes can also create barriers for people with disabilities. The common problem that PWDs is facing today is discrimination which makes it for the PWD to have a low self-esteem.\\

To address the concerns about PWDs jobs and other related concerns, the proponents decided to design a job marketplace for PWDs namely KayaKo.PH. KayaKo.PH allows it’s users to find and apply for a job easily. It also helps companies to find reliable and trusted employees. It is simply designed for the welfare of our users, especially for the PWDs. Our community must change the way on how we look at disability. These people do not need our pity, instead, we should support them to boost their confidence and become productive.

\noindent

\textbf{\\OBJECTIVES OF THE STUDY}\\

The main objective of the study is to design and provide an application that help PWDs find jobs easier.\\

\begin{enumerate}

\item Guide PWDs to choose employers seeking for PWDs;\\

\item Notify PWDs when an employer post a job that match with their job specificaiton;\\

\item Allow the different users to manage their own profiles;\\

\item Create an open communication between PWDs who's in the same organization;\\

\item Notifies the different users about certain alerts or important notices on events, announcements scheduled interviews;\\

\item Create and allow memberships to different organizational networks for PWDs to join;\\

\item Post comments and add ratings to employers;\\

\item Allow PWDs to upload their resume;\\

\end{enumerate}

\noindent

\textbf{SCOPE AND LIMITATIONS OF THE STUDY}\\

\textbf{}\\

\indent KayaKo.PH is an application that makes job-searching easier for PWDs. It can also help empower PWDs to join network groups of their interest to boost their self-esteem, social awareness and empowerment.\\

\textbf {Scope} \\

\begin{enumerate}

\item The system enables applicants to apply online\\

\item The system provides push notifications to the applicants;\\

\item The system enables all the users to post feedback \& ratings;\\

\item The system allows all the users to manage their account information;\\

\item The system are for those PWDs with the following disabilities:\\

\begin{itemize}

\item[--] Mental/Intellectual Disabilities

\item[--] Hearing Disabilities

\item[--] Psychosocial Disabilities

\item[--] Visual Disabilities

\item[--] Speech Impairment

\item[--] Orthopedic Disability

\item[--] Learning Disability

\item[--] Disabilities due to Chronic Illness\\

\end{itemize}

\end{enumerate}

\textbf{ Limitations of the Study}\\

\indent These are the limitations of the study:\\

\begin{enumerate}

\item Only provides data in Cebu City;\\

\item The employers can't post feedback or rating unless they employ the applicant and vice versa;\\

\item Unregistered applicants can only view jobs;\\

\item Does not support offline services;\\

\item PWDs who can't do it alone must have an assistant like PWDs with visual disabilities and are hand disabled;\\

\end{enumerate}

\noindent

\textbf{SIGNIFICANCE OF THE STUDY}\\

\textbf{}\\ \indent The proposed system will serve as a useful web application that gives opportunity for the PWDs to search and apply online and at the same time boost their self-esteem and morale.\\

\indent The study will be beneficial to the following:\\

\begin{description}

\item [$\bullet$ PWDs] - The PWDs will experience hassle-free searching for jobs and will be able to apply online.\\

\item [$\bullet$ Employer]- The employer will be able to employ trust worthy and reliable employees and can help their businesses. \\

\item [$\bullet$Researchers]-The researchers will be able to obtain new knowledge and experience in analyzing, designing and developing the application.\\

\item [$\bullet$Future Researchers]-This proposed system will serve as a future reference for those researchers who will conduct the same study. This will serve as a guide for those people who want to move to innovate the system.\\

\end{description}

\noindent

\textbf{TECHNOLOGY STACK}\\

\textbf{}\\

\indent The terms front end and back end refer to the initial and the stage of the process flow. The front is an abstraction simplifying by the underlying component by providing a friendly user interface. It is responsible for accumulating input from the users in various forms and processing it to conform to a specification the back-end can use. The front end is the interface between the user and the back end. A back-end application or program serves indirectly in support of the front-end services, usually by being closer to the required resource or having the capability to communicate with the required resource. The back-end application may interact directly with the front-end or, perhaps more typically is a program called from an intermediate program that mediates front-end and back-end activities.\\

\begin{center}

\includegraphics[width=75mm, scale=0.6]{StackDiagram.png}

\captionof{figure}{\scriptsize{\underline{\textbf{Technology Stack}}}}

\end{center}

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\textbf{FUNCTIONAL DECOMPOSITION DIAGRAM}\\

\textbf{}\\

\indent Functional decomposition diagram is used by the system analysts to decompose the intended function into a number of sub functions that each solves a part of the problem.

The FDD will serve as a guide to the programmer to know the function needed in the implementation of the system to achieve the objectives of the study.\\

\begin{center}

\includegraphics[width=75mm, scale=0.6]{FDD.png}

\captionof{figure}{\scriptsize{\underline{\textbf{Functional Decomposition Diagram}}}}

\end{center}

\vspace{5mm}

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\textbf{USE CASE DIAGRAM}\\

Our objective in using use case modelling is to identify and describe all the use cases that the actors require from the system. The use case descriptions then are used to analyze and design a robust system architecture that realizes the use cases.\\

\begin{center}

\includegraphics[width=80mm,scale=0.8]{pwd.png}

\captionof{figure}{\scriptsize{\underline{\textbf{Use Case Diagram - PWD}}}}

\end{center}

\begin{center}

\includegraphics[width=90mm,scale=0.8]{employer.png}

\captionof{figure}{\scriptsize{\underline{\textbf{Use Case Diagram - Employer}}}}

\end{center}

\begin{center}

\includegraphics[width=90mm,scale=0.8]{employer.png}

\captionof{figure}{\scriptsize{\underline{\textbf{Use Case Diagram - Organizer}}}}

\end{center}

\begin{center}

\includegraphics[width=75mm,scale=0.8]{admin.png}

\captionof{figure}{\scriptsize{\underline{\textbf{Use Case Diagram - Admin}}}}

\end{center}

\noindent

\textbf{DATABASE DESIGN}\\

In this section, the basic structure of the tables composing the database for the project are shown along with information about primary and foreign keys.

\noindent

\textbf{DEPLOYMENT DIAGRAM}

The Developing Phase involves more than code development and software developers. The infrastructure is also developed during this phase and all roles are active in building and testing deliverables. The team continues to identify all risks throughout the phase and address new risks as they emerge.

\begin{center}

\includegraphics[width=80mm,scale=0.6]{finerd.png}

\captionof{figure}{\scriptsize{\underline{\textbf{Entity Relationship Diagram}}}}

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\textbf{NETWORK DESIGN}\\

The network design shows how the system was designed. This comprised the Network Model and Topology.\\

\noindent

\textbf{}\\

\textbf{NETWORK MODEL}\\

The KayaKo.PH network model follows the TCP/IP model. TCP/IP uses the client/server model of communication in which a user or machine is provided a service by another computer in the network. TCP/IP provides end-to-end connectivity specifying how data should be packetized, addressed, transmitted, routed and received at the destination. This functionality is organized into four abstraction layers which are used to sort all related protocols according to the scope of networking involved. KayaKo.PH Network Model-based its architecture from various computer networks.\\

\noindent

\textbf{}\\

\textbf{NETWORK TOPOLOGY}\\

The KayaKo.PH network topology is a star topology because there is more than one user, the overall topology is composed of more than one-star topology. In the figure, everything comes from the internet. Its server and storage are in the cloud and accessing that information can be done through the internet. Although there are physical servers used, which is for backup purposes, the main player in the cloud server. The development or management team is connected to the internet wherein the team can update the files on the cloud.\\

\begin{center}

\includegraphics[width=95mm,scale=0.5]{networkmodel.png}

\captionof{figure}{\scriptsize{\underline{\textbf{Network Design}}}}

\end{center}

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\textbf{\\LIST OF MODULES}

\begin{center}

\includegraphics[width=80mm,scale=0.5]{lom.png}

\captionof{figure}{\scriptsize{\underline{\textbf{KayaKo.PH List of Modules }}}}

\end{center}

\textbf{}\\

\textbf\\\\{CONCLUSION}\\

The study focuses on developing a web application that can make it easier for PWDs to find a job. It is simply designed for the welfare of our users, especially for the PWDs. Not only that, this application allows the PWDs or anyone to create and allow membership to different organizational networks. It also helps companies to find reliable and trusted employees.\\

The objectives that were defined in Chapter 1 have been achieved. The proponents was able to create an open communication for negotiations between PWDs and their prospective employers. The proponents believe that this study will change lives of PWDs and companies.\\

\textbf{RECOMMENDATIONS} \\

For future researchers who want to improve the study, the developers of KayaKo.PH would like to recommend the following: \\

\begin{enumerate}

\item Develop in IOS devices.\\

\item Add an text-to-speech feature \\

\item Accept cash payment in any kind of payment method.\\

\end{enumerate}

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\textbf{REFERENCES}\\

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\noindent

Stevenson, J. (2013), Getting Started With Bitcoin, p.18\\

\break

\noindent

Barbara Altman (2017). Factors in Studying Employment for Persons with Disability

https://books.google.com.ph/books \\

\break

\noindent

Anonymous. Work and Employment of Persons with Disabilities in the Philippines

https://www.ohchr.org/Documents/Issues/Disability/\\SubmissionWorkEmployment/CivilSociety/AsiaPacific\\ForumNationalHRI.doc \\

\break

\noindent

International Labour Office (2004). Achieving Equal Employment Opportunities for People with Disabilities Through Legislation: Guidelines

https://www.ilo.org/skills/pubs/$WCMS\_322685$\\

\break

Maria Feona Imperial (2017). The Benefits of Hiring PWDs.

http://verafiles.org/articles/benefits-hiring-pwds-told-companies\\

\break

Bob Peck and Lynn TrewKirkbride (2000). Why Businesses Don’t Employ People

http://thestandard.com.ph/news/top-stories/260076/why-it-makes-sense-to-hire-pwds.html\\

\break

H. Stephen Kaye (2011). Why Don’t Employers Hire and Retain Workers with Disabilities?

https://vcurrtc.org/resources/viewContent.cfm/476\\

\break

Tutorials Point. SDLC – Iterative Model

https://www.tutorialspoint.com/sdlc/\\

\break

ProfessionalQA.com. Iterative Model: Advantages and Disadvantages

http://www.professionalqa.com/iter\\ative-model\\

\break

Wikipedia. Business Model Canvas

https://en.wikipedia.org\\/wiki/$Business\_Model\_Canvas$\\

\break

Togaf-Modeling.org. Functional Decomposition Diagrams

https://www.togaf-modeling.org/models/business-architecture/functional-decomposition-diagrams.html\\

\break

Move. Storyboards\\

http://www.movecph.com/story/\\

\break

Nick Vujicic. My life without limbs

http://letsstaymotivated.com/2018/04/06/nick-vujicic-life-without-limbs/\\

\break

Vangie Beal. Entity Relationship Diagram

https://www.webopedia.com/TERM/E/entityrelationship\\diagram.html\\

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