



UTM
UNIVERSITI TEKNOLOGI MALAYSIA

Technology and Information Systems (SECP1513)

PROJECT- Part 1

Date: 31th December 2021

Section: 05

Group: 4

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Table Of Content

N	Content	Page
1	Introduction	2
2	Selection of 4th IR Technology	3
3	Potential Clients	4
4	Architecture Planning and Design	5
5	Conclusion	6

Introduction

Our group has been discussing a project for a low fidelity prototype that can help people around us to be more organized. It doesn't matter with their age which means it is suitable for every age. The industrial revolution 4.0 technology that we choose is the Internet of Things. Our selected clients for this project are students and workers in the management section. Our objective is to create an application by using cloud architecture to solve the problem that the clients are facing. Cloud architecture is basically the way technology components combine to build a cloud. Internet of Things devices can be connected easily and safely to cloud applications and other devices which are related to cloud computing. As an introduction the prototype that we want to create is a cloud storage for the clients.

Selection of 4th IR Technology

In this project, our group has decided to choose **IoT or the Internet Of Things** for the project as one of the innovative technologies on the 4th IR. The Internet of Things (IoT) is a network of physical objects (or "things") that are implanted with sensors, software, and other technologies to connect and exchange data with other devices and systems over the internet. The reason why we chose IoT in our project is that we realized that nowadays the Internet has been a very essential and crucial thing in our life. Students, workers, and management have been depending on the Internet a lot and due to the Covid-19 issues, we have been dependent on the Internet. Not only that, the Internet has been a medium for people to do people to finish their work, and also has been used in smart systems such as home security smart systems and also smoke detector smart systems where users can just set all the setup through the smartphone. Our group has decided to choose IoT(Internet of Things) in proposing the AWS Solution-Cloud Computing.

Selection Clients

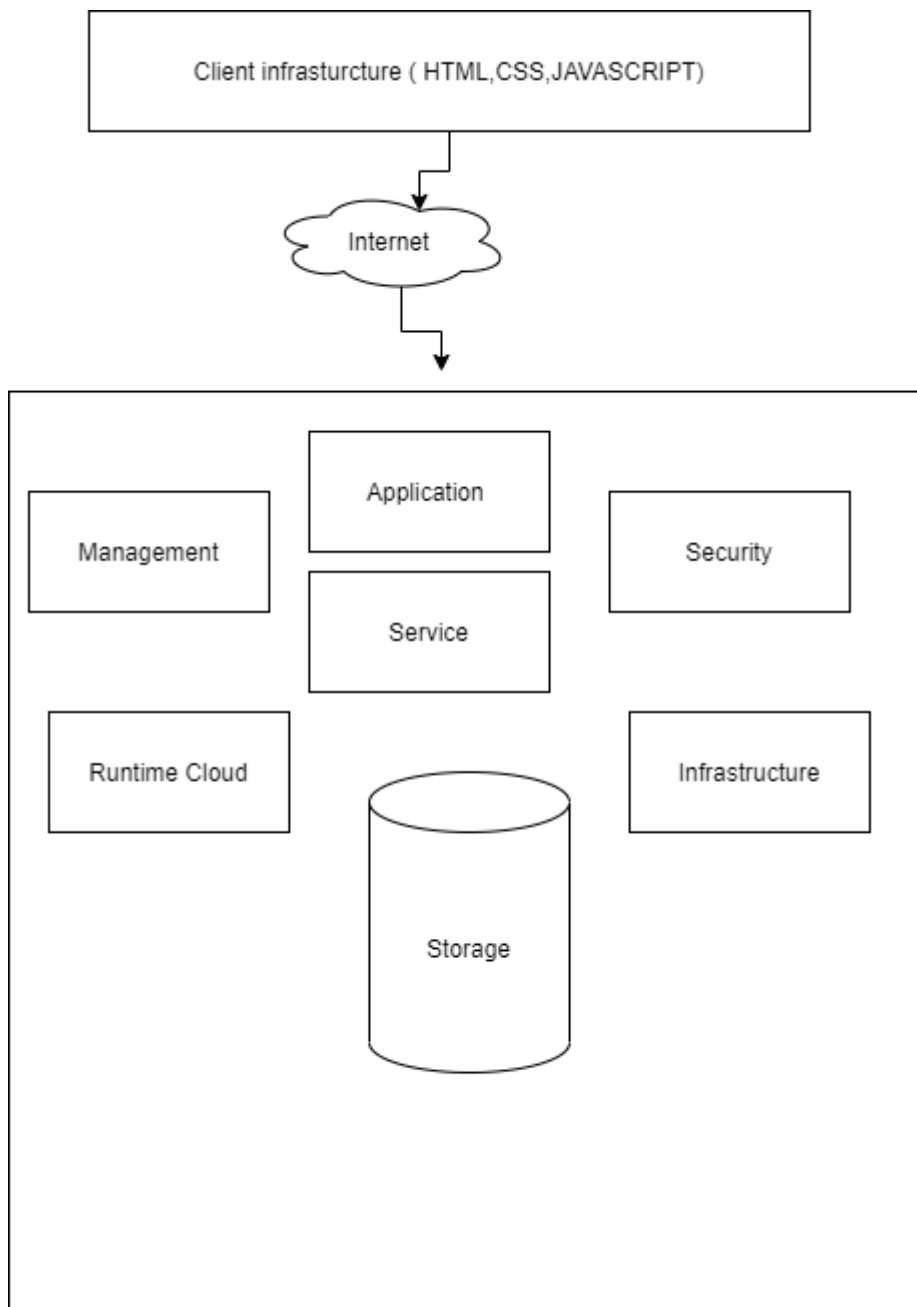
1. Students

Due to the pandemic Covid-19 that has been affected for about 2 years, most educational institutes have gone for hybrid learning in which some of the subjects have been taught via an online learning platform. Most of the assignments and projects require a lot of space to be saved. Thus, students are likely to find a solution where they can save all the files that include assignments, projects, videos, lecture videos, and all the works in one place. They don't want to keep it on the computer because it will take more space and also the learning session in the online platform may be continued for the upcoming semester too. Therefore, they need one storage that they can save, view, and edit all the files that they keep. AWS Cloud Computing will be the best choice as it already serves in the cloud section that helps people to keep all the data they want in one place..

2. Management

When it comes to data of all the clients, workers, and management, it will need very large storage with a bigger capacity. However, how about if the PC is broken or lost? All of this makes the management of the company feel that they need innovation from the technology that they are using right now. They also feel the necessity of a workplace that everyone in the team management can view, comment, and share their files as not every meeting will be done online. Therefore, AWS Cloud Computing would be a great choice for management company systems where they can save all the work in the cloud as backup and make meetings and work collaboration with other workers via online meetings and online docs sheet and presentations.

Cloud Architecture



The cloud architecture for this case are we have a front-end, internet, and back-end site. The internet would be a connector to the cloud structure. A front end would be any device of the client that will be using the service, The back-end site would be servers and storage.

Together, these technologies create a cloud computing architecture on which applications can run, providing end-users with the ability to leverage the power of cloud resources.

Conclusion

To sum it up, this project will be a great tool to help people to get organized and also be more productive in today's world. Covid 19 pandemic has been a major impact on the world and still, there is no clear image of when it will end. Therefore, the world is shifting to a new lifestyle involving the use of the internet more than ever before. Companies, schools, universities, and businesses have started to transition to work from home. This transition can be challenging for the people be organized as well as organizations. For example, students need to access some materials from the campus library or an employee who needs to manage some data of clients from home. All of these limitations can be managed easily with the implementation of one of the 4th Industrial Revolution Technology IoT(Internet of Things) in proposing the AWS Solution-Cloud Computing. AWS Solution-Cloud Computing is a great tool for students accessing all the materials from the campus library, managing and organizing projects and assignments. AWS Cloud Computing can be a great solution by providing efficient management systems for companies with tools such as cloud backups, word processing, database, online meetings and collaborations interface, and more. All of these tasks can be handled in the cloud in a secure manner without the need for physical storage. AWS Solution-Cloud Computing will revolutionize the typical use of storage especially in these uncertain times with pandemics and also provide peace of mind, boost the productivity level and achieve goals.