SWE4002 – Cloud Computing Project Based Component Website Hosting using Microsoft Azure Cloud



GUIDED BY

PROF KUMARESAN P Assistant Prof (Senior)

Team Members:

K.KARTHIKEYAN - - 16MIS0102

GANESH MOORTHY H - 16MIS0226

T SIVATEJA -16MIS0390

S.JAISURIYA -16MIS0432





SWE 4002-Cloud Computing –Project Report

S.no	Chapter	Page.no
1	Title	3
2	Abstract, Keywords	3
3	Literature Review	4
4	Architecture Diagrams	5-7
5	Cloud Environment and Resource	8-9
	Virtualization	
6	Cloud Deployment	10
7	Data Analysis	10-13
8	Output	14-16
9	References	17

Website Hosting using Microsoft Azure Cloud

Abstract:

Online shopping is the process whereby consumers directly buy goods or services from a seller in real-time, without an intermediary service, over the Internet. It is a form of electronic commerce. It helps buying the products in the shop anywhere through internet by visiting the site. Thus the customer will get the service of online shopping and home delivery from the shop.

This project is a web based shopping system for an existing shop. The project objective is to deliver the online shopping system using Cloud. A cloud is a virtualized server pool which can provide the different computing resources of their clients. Users of this system need only be concerned with the computing service being asked for. The underlying details of how it is achieved are hidden from the user. The data and the services provided reside in massively scalable data centers and can be ubiquitously accessed from any connected device all over the world.

Keywords:

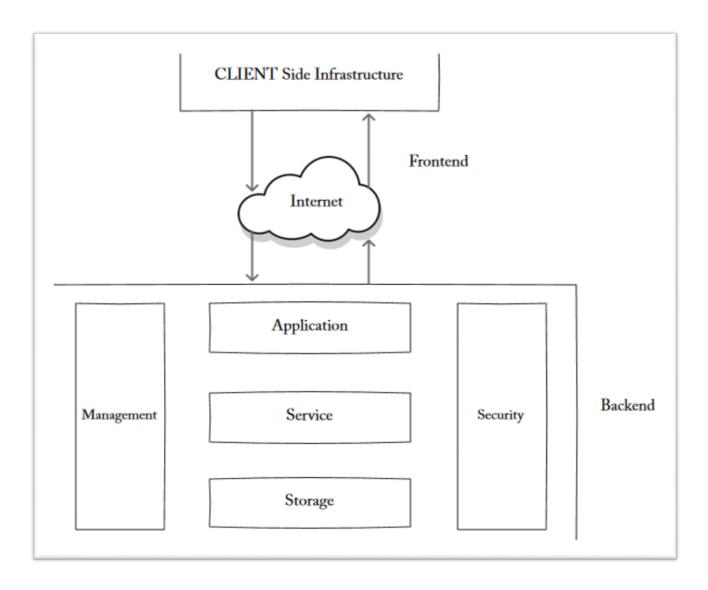
SaaS (Software as a Service), Cloud Computing, Service Platform, Textile Industrial Cluster, Service System Innovation

Literature Survey:

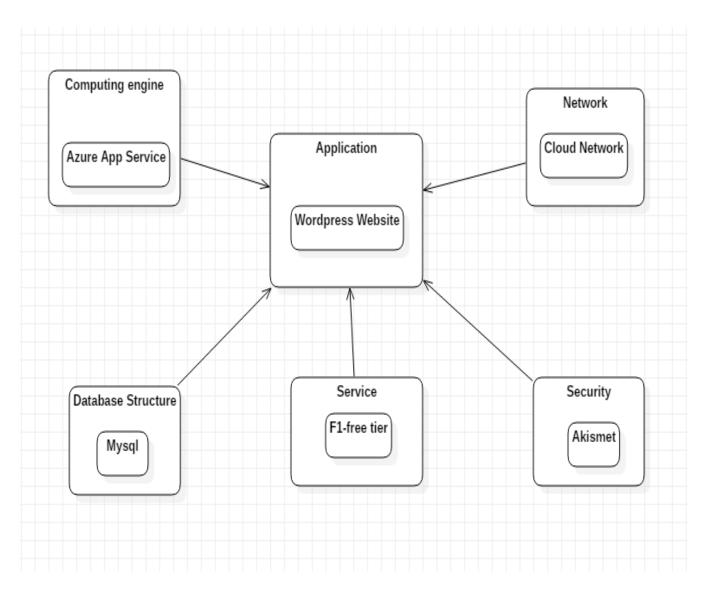
S.No	Survey	Author	Description
1	Innovation of IT Service in Textile Industrial Clusters from the Service System Perspective	KeJing Zhang, PingJun Dong, Biao Ma, BingYong Tang, Hong Cai	IT service platform based on cloud computing and SaaS is presented to enhance the competitiveness of the textile industrial clusters, and even to change the business models
2	Managing Wearable Sensor Data through Cloud Computing	Charalampos Doukas Ilias Maglogiannis	It is based on open hardware and software that collects motion and heartbeat data and stores them wirelessly on an open Cloud infrastructure for monitoring and further processing. The proposed system may be used to promote the independent
3	Interactive Clothes based on Internet of Things Using NFC and Mobile Application	Kishore Kumar Reddy.N.G Rajeshwari.K	It is based on an interactive interface where users can get advice on matching the interactive cloth with other outfits, dressing according to the season, facilitating dry cleaning process, deciding whether it suits our skin tone, also helps us keep track of the frequency of use.
4	Enterprise Mobile Cloud Application for Textile Cyberpreneurs:	Khairul Azhar Mat Daud Tan Tse Guan Nik Zulkarnaen Khidzir Wan Safra Diyana	The preliminary study through several literatures in big data, textile industry and enterprise mobile cloud applications are also presented in this paper along with the proposed research methodology of the study.

Architecture Diagram:

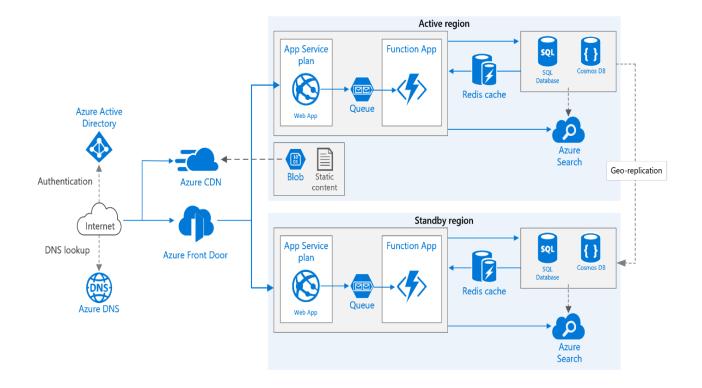
Website Hosting using Microsoft Azure



Block Diagram:



Cloud service model:





Description

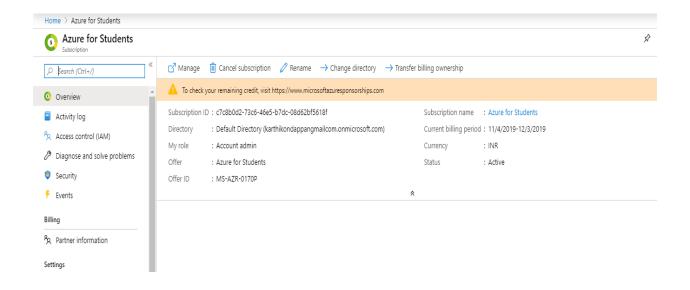
- ➤ We are going to host a business website in cloud to improve the business all over to people here we used azure cloud to host the website the website is created using wordpress using asp.net for designing and hence we develop a website for advertisement as well marketing
- Like blog and product view we enhanced in website

Cloud Environment and Resource Virtualization:

Cloud Environment



Cloud Subscription

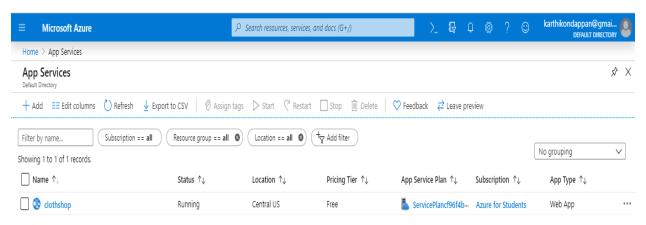


Cloud security:



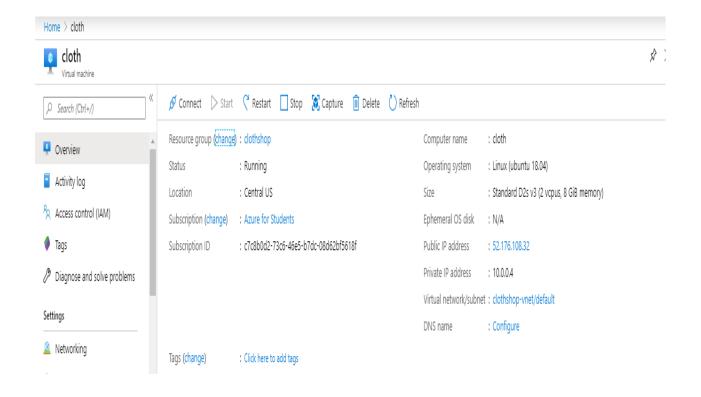
Resource virtualization:

App service



Cloud Deployment:

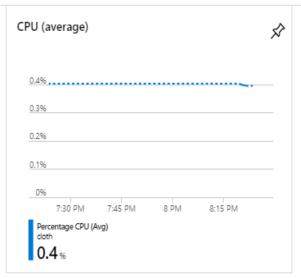
CPU and Network view

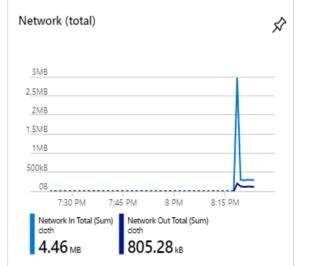


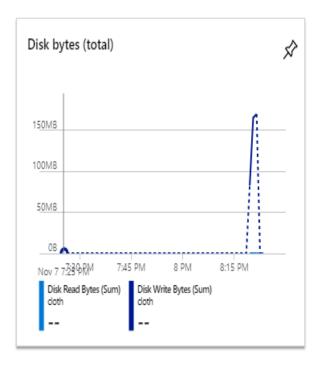
Data Analysis:

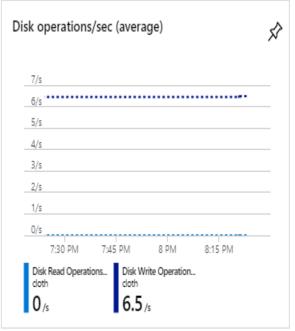
Data Analysis in the Cloud introduces and discusses models, methods, techniques, and systems to analyze the large number of digital data sources available on the Internet using the computing and storage facilities of the cloud. Coverage includes scalable data mining and knowledge discovery techniques together with cloud computing concepts, models, and systems. Specific sections focus on map-reduce and NoSQL models. Finally, the book examines research trends such as Big Data pervasive computing, data-intensive exascale computing, and massive social network analysis. Introduces data analysis techniques and cloud

computing concepts Describes cloud-based models and systems for Big Data analytics Provides examples of the state-of-the-art in cloud data analysis Explains how to develop large-scale data mining applications on clouds outlines the main research trends in the area of scalable Big Data analysis

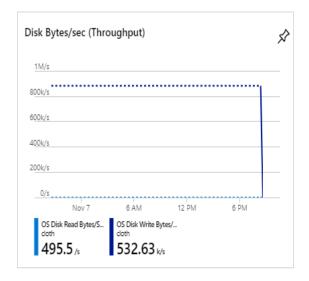


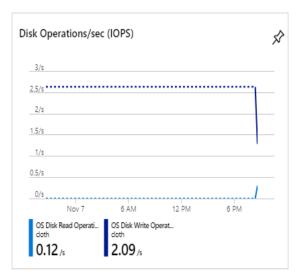


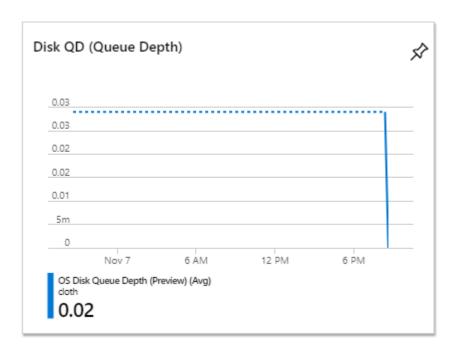




Disks operation







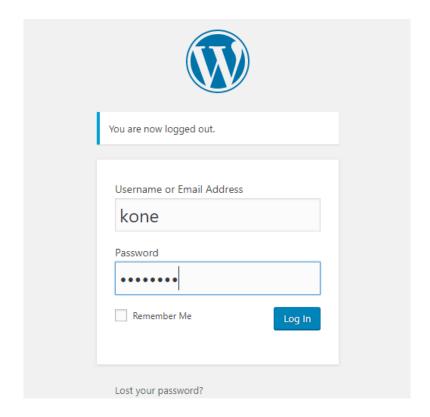
ASP.net code for website design

Login form

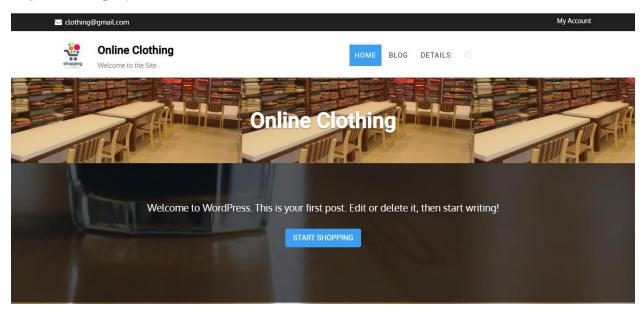
```
<!DOCTYPE html>
<html>
<body>
if (IsPost)
string name = Request["Namw"];
string passwordname = Request["password"];
You entered: <br>
Name: @name <br>
Password: @Password 
}
else
{
<form method="post" action="">
Company Name:<br>
<input type="text" name="Name" value=""><br>
Contact Name:<br><br>
<input type="text" name="Pass" value=""><br><br>
<input type="submit" value="Submit" class="submit">
</form>
}
</body>
</html>
Design
<html>
<body>
@RenderPage("header.cshtml")
<h1>Hello Web Pages</h1>
This is a paragraph
@RenderPage("footer.cshtml")
</body>
</html>
```

Output-Screen shots

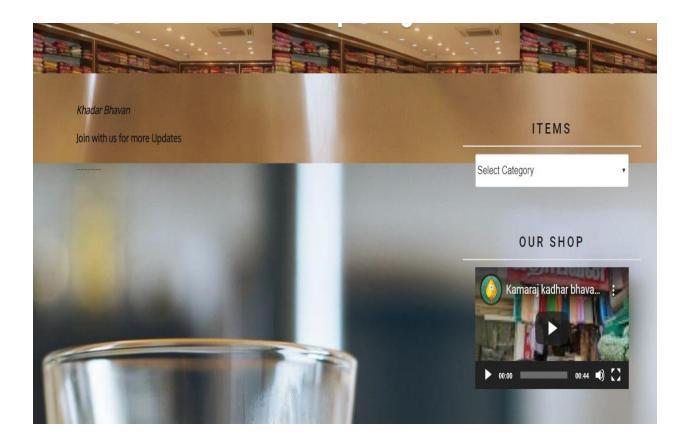
Admin Login page



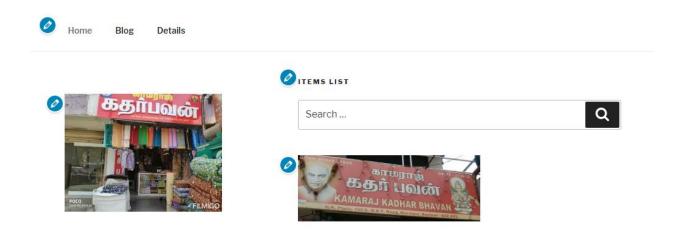
HOME PAGE:



Items Category:



Search By Item:



Notification Center:

New Products & exclusive launches	ITEMS	
. In-Store and Online events	Select Category	,
. Special Offers and Competitions	OUR SHO	B

Summary:

Cloud computing is expressively leading today's IT enterprises towards achieving their business goals alongside providing utmost customer satisfaction with very lower cost with respect to infrastructure, platforms, and software perspectives. While these infrastructure-related hassles handled by a CSP, cloud service provider, organization needs to completely focus on the service to their customers. Being a user of cloud services from CSP, organizations need not have high technical potential with respect infrastructure and platforms. Whereas, Cloud Service Users need to have expertise on the functionality provisioning/servicing based on their customer requirements. Alongside to its benefits, cloud computing is also comes with various challenges. Among all, security being a leading threat. Hence, in this research work, an attempt has been made to influence further on to the problem, alongside designing a generic cloud security solution/framework.

References:

- [1] Yiduo Mei; Ling Liu; Xing Pu and Sankaran Sivathanu," Performance Measurements and Analysis of Network I/O Applications in Virtualized Cloud", IEEE 3rd International Conference on Cloud Computing, pp.59-66, 2010.
- [2] Luit Infotech, "What is Cloud Computing ", IBM Journal of Research and Development, Vol.60, No.4, pp.41-44, 2012.
- [3] Christopher M. Moyer, "Building Applications in the Cloud", ISBN-13: 978-0-321-72020-7, Addison Wesley, 2011.
- [4] Alex Huth and James Cebula, "The Basics of cloud computing", International Journal of Network Security & Its Applications (IJNSA), Vol.6, No.3, pp.72-76, 2014.
- [5] Nancy Lynach and Seth Gilbert, "Brewer's conjecture and the feasibility of consistent, available, partition-tolerant web services",
- ACM Sigact Journal, Vol.33, No. 2, pp, 51-59, 2002.
- [6] Rajkumar Buyya and Karthik Sukumar, "Platforms for Building and Deploying Applications for Cloud Computing", CSI Communications, Vol.35, no.1 pp. 6-11, May 2011.
- [7] Matt Tavis and Philip Fitzsimons, "Web Application Hosting in the AWS Cloud", ISBN 978-0-9805768-3-2, Site Point, September 2012.
- [8] Alex Amies; Harm Sluiman; QiangGuo Tong and GuoNing Liu, "Developing and Hosting Applications on the Cloud", ISBN-13: 978-0-13-306684-5, IBM Press, July 2012.