

# **SUMMER TECHNICAL INTERSHIP REPORT**

*Submitted in partial fulfilment of the requirements for  
the award of the degree of*

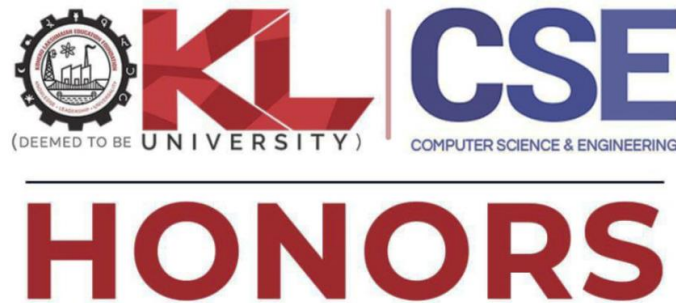
## **BACHELOR OF TECHNOLOGY**

**SUBMITTED BY**

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**2021-2022**



**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING  
KONERU LAKSHMAIAH EDUCATION FOUNDATION**

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## ACKNOWLEDGEMENTS

I would like to thank the management of K L University , which provide me with all the facilities required for this project.

Doing the Future ready Talent Project was interesting. During these 2 months of internship, I learned a lot about Creating of Azure Virtual machine and the benefits of using an Azure virtual machine

I also learned about Azure Cosmos DB, Jenkins, Splunk, and selenium and their uses.

At the end of this internship, we were supposed to do a project for that I chose event management. I hosted my event management website using Microsoft Azure static web apps. Finally, I got more interested in hosting the websites using Microsoft Azure.

I would like to thank [Srithar S](#) sir who taught me the necessary concepts and Helped me a lot to complete this project

I am especially very grateful [Naresh Vurukonda](#) sir for the guidance, inspiration, motivation and encouragement, he provided during the course of the project study. He has always been nice and patient enough, to listen to the queries and solving them, in spite of a very busy schedule.

I would like to thank my parents, relatives and all my friends for their constant encouragement.

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## 1.INDUSTRY PROFILE

An industry profile provides a snapshot of a specific business industry based on data that includes trends and areas of growth.

### Future Ready Talent:

**Future Ready Talent** is a virtual internship platform for students with an opportunity to learn the in-demand technology skills and work towards solving real world problem using the power of Microsoft Azure & GitHub tools. The students can earn internship credits on completion of the program with an entry to exclusive career fairs.

Azure is Microsoft's [Cloud computing](#) platform that offers on-demand infrastructure as a service (IaaS) and platform as a service (PaaS) solutions. Azure helps organizations store and manage their data efficiently, improve their cybersecurity and compliance practices, quickly build and deploy complex web apps, and much more. Since [Azure](#) is fully integrated with all Microsoft products and is a public cloud platform, users can scale up their infrastructure without buying or maintaining the underlying infrastructure.

Following are the benefits of using Azure:

- **On-demand Scalability:** Whether for growth or downsizing, business requirements can change quickly. Azure's public cloud framework allows companies to adjust their service agreements by increasing/decreasing their storage space and computing power on demand.
  - **No on-site Hardware Required:** Businesses don't have to own and operate on-premise data storage equipment, reducing upfront costs and consistent overhead.
  - **Cost-effective Subscription Models:** Azure has a consumption-based pricing structure that allows small businesses and large enterprises to manage their IT budgets better.
  - **High availability:** Azure operates in 55 regions in 140 countries worldwide and provides high availability and redundancy across all data centers.
  - **Enterprise-Level Development Tools:** Businesses can build, deploy, and manage their custom web apps using various popular tools and programming languages.
  - **World-Class Cybersecurity:** Azure has an advanced encryption process, and the built-in security tools help maintain the integrity, privacy, and availability of sensitive customer information.
-

**Azure Cognitive Services provides several [Docker containers](#) that let you use the same APIs that are available in Azure, on-premises. Using these containers gives you the flexibility to bring Cognitive Services closer to your data for compliance, security or other operational reasons. Container support is currently available for a subset of Azure Cognitive Services**

## **DevOps**

As you start using Microsoft **Azure services**, the software as a service (SaaS) platform of DevOps will be needed to develop and deploy software. It offers easy integration facilities with famous tools in the industry and can help orchestrate a DevOps toolchain. DevOps services prove the agility of the tools by tracking, planning, and discussing their work among other teams.

Read More on [What is Azure DevOps?](#)

For most of the users, DevOps are greatly beneficial to their applications, irrespective of the platform, language, or cloud. They also enable faster delivery through active planning and better collaboration. Using the efficient tools, this **Azure service** ensures an access to unlimited, cloud-hosted private Git repository where the application coding welcomes collaboration with advanced file management.

## **Azure Backup**

Human error is a crude reality and **Azure Backup** allows simple data protection tools from the Azure Web app services, to keep your data protected from ransomware or loss of any kind. The backup cost is almost inexpensive, and can be used for backing up SQL workloads, as well as data from virtual machines too.

Tools like Windows VSS Snapshot and Linux fsfreeze can come in handy along with Azure Backup to maintain consistency in the data. The backup system of Azure enables better task management and project efficiency.

## **Logic Apps**

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As one of the **top Azure services**, Logic Apps have gained immense popularity due to their useful and efficient tools. They can offer effective solutions to integrate different applications. One must note the tightly-knit ecosystem of cloud-based SaaS connectors like Google Services, Twitter, and Office 365.

Logic apps make it very easy for Electronic Data Interchange (EDI) standards to operate in collaboration with trading partners through their B2B functionalities. Logic apps can also virtually connect devices, data, and apps across different locations.

## The sample containers

The sample has two container images, one for the frontend website. The second image is the language detection container returning the detected language (culture) of text. Both containers are accessible from an external IP when you are done.

### The language-frontend container

This website is equivalent to your own client-side application that makes requests of the language detection endpoint. When the procedure is finished, you get the detected language of a string of characters by accessing the website container in a browser with `http://<external-IP>/<text-to-analyze>`. An example of this URL is `http://132.12.23.255/helloworld!`. The result in the browser is English.

### The language container

The language detection container, in this specific procedure, is accessible to any external request. The container hasn't been changed in any way so the standard Cognitive Services container-specific language detection API is available.

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## 2. PROBLEM STATEMENT

For completing this Internship we need to complete the following steps. They are

1. Complete Orientation Page.
  2. Complete Industry Videos.
  3. Complete self-learn courses as per defined Learning Path
  4. Mandatory to be logged in both FSP (Future Skills Prime) and MS(Microsoft)Learn to ensure that your progress is captured.
  5. Activate Developer Pack
  6. Project synopsis submission
  7. At the end of this internship, we were supposed to do a project and we need to host our website using Microsoft Azure services. For that we need to use Two Microsoft Azure Services.
-

## 2.1 SYNOPSIS

We have so many services Microsoft azure providing to us to use.

**Microsoft Azure**, often referred to as **Azure** is a [cloud computing](#) service operated by [Microsoft](#) for application management via Microsoft-managed [data centers](#). It provides [software as a service \(SaaS\)](#), [platform as a service \(PaaS\)](#) and [infrastructure as a service \(IaaS\)](#) and supports many different [programming languages](#), tools, and frameworks, including both Microsoft-specific and third-party software and systems.

Azure, announced at Microsoft's Professional Developers Conference (PDC) in October 2008, went by the internal project codename "Project Red Dog", and formally released in February 2010, as **Windows Azure** before being renamed Microsoft Azure on March 25, 2014

Azure Virtual machine:

Azure Virtual machine will let us create and use virtual machines in the cloud as Infrastructure as a Service. We can use an image provided by Azure, or partner, or we can use our own to create the virtual machine.

Virtual machines can be created and managed using:

- Azure Portal
- Azure PowerShell and ARM templates
- Azure CLI
- Client SDK's
- REST APIs

Following are the configuration choices that Azure offers while creating a Virtual Machine.

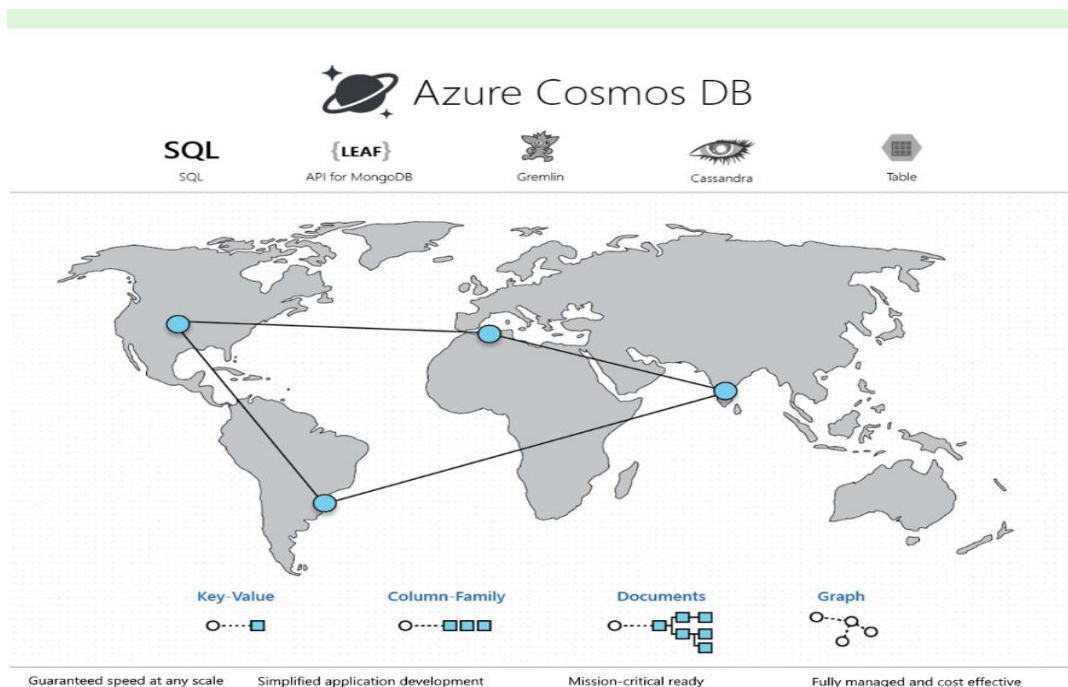
- Operating system (Windows and Linux)
-



- VM size, which determines factors such as processing power, how many disks we attach etc.
- The region where VM will be hosted
- VM extension, which gives additional capabilities such as running anti-virus etc.
- Compute, Networking, and Storage elements will be created during the provisioning of the virtual machine

Type	Sizes	Description
General-purpose	B, Dsv3, Dv3, DSv2, Dv2, DS, D, Av2, A0-7	It has balanced CPU-to -memory ratio, It is ideal for testing and development, small to medium databases, and low to medium traffic web servers.
Compute-optimized	Fsv2, Fs, F	It has a high CPU-to-memory ratio. It is suitable for medium traffic web servers, network appliances, batch processes.
Memory-optimized	Esv3, Ev3, M, GS, G, DSv2, DS, Dv2, D	Is has a high memory-to-CPU ratio. Great for relational database servers, medium to large caches, and in-memory analytics.
Storage optimized	Ls	It has high disk throughput and IO that is Ideal for Big Data, SQL, and NoSQL databases.
GPU	NV, NC, NCv2, ND	It is a specialized virtual machine that is targeted for heavy graphic rendering and video editing. Available with single or multiple GPUs.
High performance compute	H, A8-11	It is the fastest and most powerful CPU virtual machine with optional high-throughput network interfaces (RDMA).

## Azure Cosmos DB



Today's applications are required to be highly responsive and always online. To achieve low latency and high availability, instances of these applications need to be deployed in datacenters that are close to their users. Applications need to respond in real time to large changes in usage at peak hours, store ever increasing volumes of data, and make this data available to users in milliseconds.

Azure Cosmos DB is a fully managed NoSQL database for modern app development. Single-digit millisecond response times, and automatic and instant scalability, guarantee speed at any scale. Business continuity is assured with [SLA-backed](#) availability and enterprise-grade security. App development is faster and more productive thanks to turnkey multi region data distribution anywhere in the world, open source APIs and SDKs for

popular languages. As a fully managed service, Azure Cosmos DB takes database administration off your hands with automatic management, updates and patching. It also handles capacity management with cost-effective serverless and automatic scaling options that respond to application needs to match capacity with demand.

### **What is Jenkins?**

Jenkins is a self-contained, open source automation server which can be used to automate all sorts of tasks related to building, testing, and delivering or deploying software.

Jenkins can be installed through native system packages, Docker, or even run standalone by any machine with a Java Runtime Environment (JRE) installed.

### **Deploy your code into Azure services**

Use Jenkins plug-ins to deploy your applications to Azure as part of your Jenkins CI/CD pipelines. Deploying into [Azure App Service](#) and [Azure Container Service](#) lets you stage, test, and release updates to your applications without managing the underlying infrastructure.

### **About Splunk:**

Splunk software searches, monitors, analyzes and visualizes machine-generated big data coming from websites, applications, servers, networks, sensors and mobile devices. Splunk Enterprise is the leading platform for real-time operational intelligence, enabling organizations to search, monitor and analyze machine data to discover powerful insights across security, IT operations, application delivery, industrial data and IoT use cases.

### **How to use Splunk Enterprise on Azure:**

Once your deployment has completed, you can get started with the Splunk Enterprise service running in Azure. If you do not know the Splunk Enterprise URL, search for the Resource Group within which you deployed Splunk Enterprise, click on the Resource Group Name and then click on the date link below Last deployment. Click on `splunk.splunk-enterprisebyol-` and copy the `SPLUNKURL`. Paste the copied URL to your browser's

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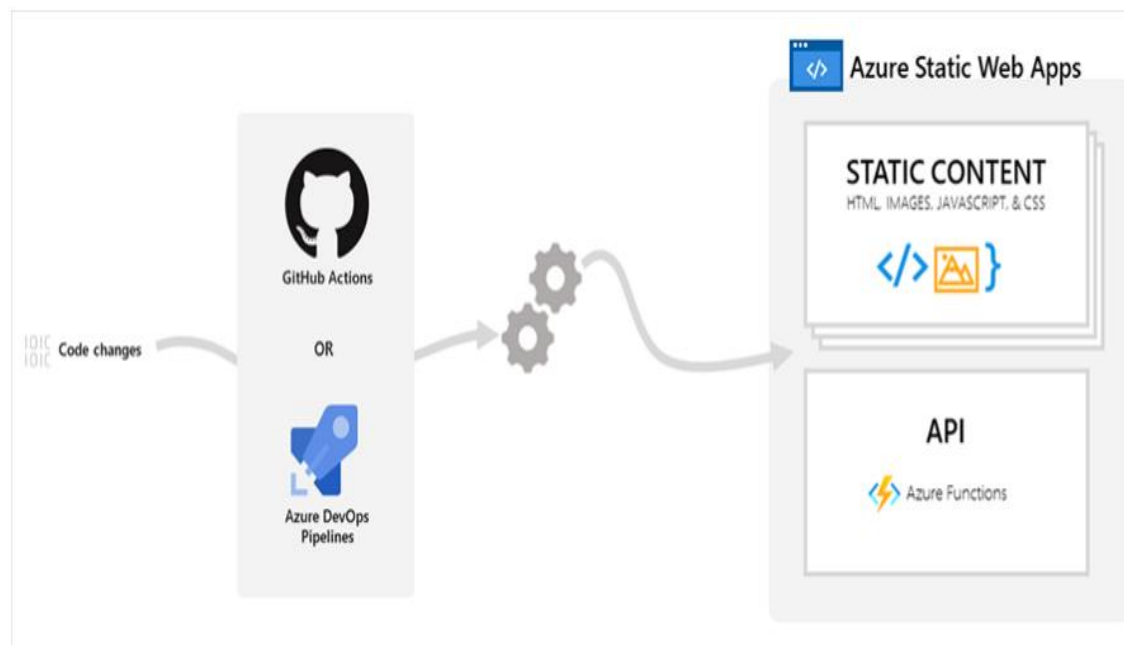
address bar, enter the user name as "admin" and password as provided by you before deploying the template.

Now you are ready to set-up Splunk Add-on for Microsoft Azure.

Splunk has released a cross-platform Add-on for Microsoft Azure that collects diagnostic and performance data from Azure IaaS and PaaS and provides pre-built visualizations for analysis and insight

### Azure Static Web Apps

Azure Static Web Apps is a service that automatically builds and deploys full stack web apps to Azure from a code repository.



The workflow of Azure Static Web Apps is tailored to a developer's daily workflow. Apps are built and deployed based off code changes.

When you create an Azure Static Web Apps resource, Azure interacts directly with GitHub or Azure DevOps to monitor a branch of your choice. Every time you push commits or accept pull requests into the watched branch, a build is automatically run and your app and API is deployed to Azure.

Static web apps are commonly built using libraries and frameworks like Angular, React, Svelte, Vue, or Blazor where server side rendering is not required. These apps include HTML, CSS, JavaScript, and image assets that make up the application. With a traditional web server, these assets are served from a single server alongside any required API endpoints.

With Static Web Apps, static assets are separated from a traditional web server and are instead served from points geographically distributed around the world. This distribution makes serving files much faster as files are physically closer to end users. In addition, API endpoints are hosted using a [serverless architecture](#), which avoids the need for a full back-end server all together.

#### Key features

- **Web hosting** for static content like HTML, CSS, JavaScript, and images.
  - **Integrated API** support provided by Azure Functions with the option to link an existing Azure Functions app using a standard account.
  - **First-class GitHub and Azure DevOps integration** where repository changes trigger builds and deployments.
  - **Globally distributed** static content, putting content closer to your users.
  - **Free SSL certificates**, which are automatically renewed.
  - **Custom domains** to provide branded customizations to your app.
  - **Seamless security model** with a reverse-proxy when calling APIs, which requires no CORS configuration.
  - **Authentication provider integrations** with Azure Active Directory, GitHub, and Twitter.
  - **Customizable authorization role definition** and assignments.
  - **Back-end routing rules** enabling full control over the content and routes you serve.
-

- **Generated staging versions** powered by pull requests enabling preview versions of your site before publishing.

What you can do with Static Web Apps

- **Build modern web applications** with JavaScript frameworks and libraries like [Angular](#), [React](#), [Svelte](#), [Vue](#), or using [Blazor](#) to create WebAssembly applications, with an [Azure Functions](#) back-end.
- **Publish static sites** with frameworks like [Gatsby](#), [Hugo](#), [VuePress](#).
- **Deploy web applications** with frameworks like [Next.js](#) and [Nuxt.js](#).

## DevOps

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inexpensive, and can be used for backing up SQL workloads, as well as data from virtual machines too.

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## 2.2 LITERATURE REVIEW

During this Internship , I learned a lot about Creating of Azure Virtual machine and the benefits of using an Azure virtual machine.

I am happy to share that I also learned about Azure Cosmos DB, Jenkins, Splunk, and selenium and their uses.

A virtual machine is essentially a computer within a computer. VMs have several advantages:

- **Lower hardware costs.** Many organizations don't fully utilize their hardware resources. Instead of investing in another server, organizations can spin up virtual servers instead.
  - **Quicker Desktop Provisioning and Deployment.** Deploying a new physical server often takes numerous time-consuming steps. However, with virtualized systems, organizations can deploy new virtual servers quickly using secure pre-configured server templates.
  - **Smaller Footprint.** Utilizing virtualization reduces the office space needed to maintain and extend IT capabilities while also freeing up desk space to support more employees.
  - **Enhanced Data Security.** Virtualization streamlines disaster recovery by replicating your servers in the cloud. Since VMs are independent of the underlying hardware, organizations don't need the same physical servers offsite to facilitate a secondary recovery site. In the event of a disaster, employees can be back online quickly with a cost-effective backup and disaster recovery solution.
  - **Portability.** It's possible to seamlessly move VMs across virtual environments and even from one physical server to another, with minimal input on the part of IT teams. VMs are isolated from one another and have their own virtual hardware, making them hardware-independent. Moving physical servers to another location is a more resource-intensive task.
-



- **Improved IT Efficiency.** Many IT departments spend at least half of their time managing routine administrative tasks, however with virtualization it's possible to partition one physical server into several virtual machines—administrators can deploy and manage multiple operating systems at once from a single physical server.

## Similarities and Differences Between a Virtual machine and a Container

A container is a standardized unit of software that includes the code along with all its dependencies, such as system libraries, system tools, and settings. Containerized applications can be deployed quickly and reliably across all types of infrastructure. A virtual machine and a container both isolate applications so they can run on any platform. But a virtual machine differs from a container in that it virtualizes hardware to run multiple OS on a single machine. In contrast, a container packages a single application with all its dependencies so it can run on any OS.

Virtual machines run on a hypervisor and include a separate OS image, while containers on a single host share the host's OS kernel. This makes containers extremely lightweight and reduces the management overhead as compared to virtual machines. Their portability makes them perfect for web applications and microservices. Virtual machines are not as lightweight and may take more time to boot, but they have their own OS kernel and are best suited for running multiple applications simultaneously or for legacy applications that require an older OS. Virtual machines and containers can also be used together.

### 2.3 PROBLEM IDENTIFICATION

We need to build one website. If we want to build static website for that we will use simple html,css and bootstrap. If we want to build dynamic website we can build through Django or spring boot.

I created a one static website .Now problem is to host my website globally. So that everyone can access it and use my website.

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### 3.TASK ACCOMPLISHED

we were supposed to do a project for that I chose event management. I create event management website using html , css and bootstrap.

I push my event management source code to github , so that I can easily host the website.

My github url: [naveen5655/event-management-system \(github.com\)](https://github.com/naveen5655/event-management-system)

Event management is the application of management to the creation and development of large scale events such as festivals, ceremonies, formal parties, concerts, or conventions. It is needed everywhere in many businesses like retail, sport, finance, etc. The objective of this application is to develop a system that effectively manages all the data related to the various events that take place in an organization like it works with budgets, schedules, and venues to create the best possible events for their clients

#### Web Technologies used

- HTML
- CSS
- JS

#### IDE

- VS-Code

#### Problem Statement/Opportunity

Factors affecting event management includes financial factors, timing and location, publicity, risk in costs, environmental issues, short lead times, etc.Process of this management includes initiation, planning, implementation, event and finally closure. Event Management System being a web-based project, it is very simple, easy to use and flexible.

#### Project Description

Event management, as name suggests, is simply management that focuses on using business management and organizational skills visualize, plan and execute all events such as social or business events.Types of event management include event coordination, event entertainment, event designs, appreciation events, etc. An event management website made for college which includes various features like creating events, registering for events, QR code generation, payment gateways, etc.

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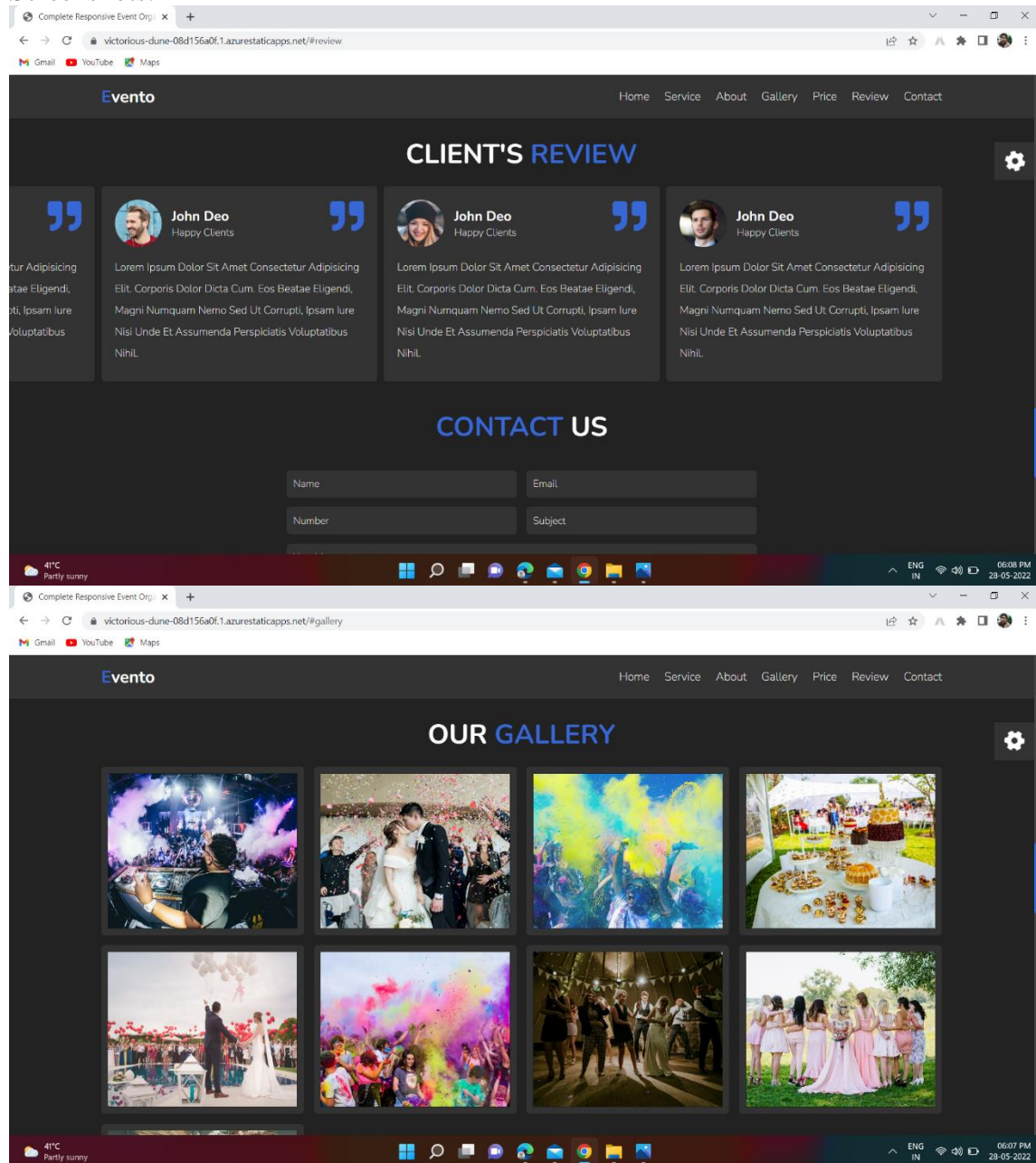
### 3.1 TYPE OF ASSIGNMENT(S)

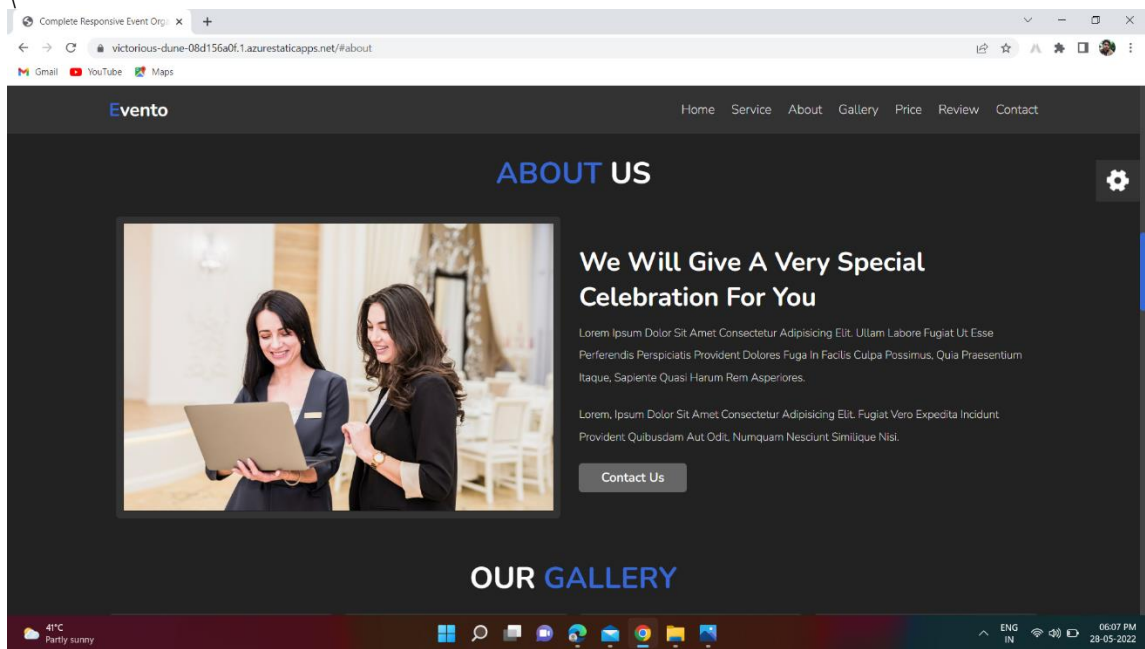
- We need to complete self learning topics such as Azure Fundamentals (AZ-900) , Azure Administrator (AZ-104) , Azure Developer (AZ-204) , Azure Security Technologies (AZ-500) , Azure AI Fundamentals (AI-900) and Microsoft Power BI Data Analyst(PI – 300).
  - We need to complete Industry sessions such as **overview of Microsoft Azure.**
  - We need to complete the project using at least two Microsoft Azure services.
-

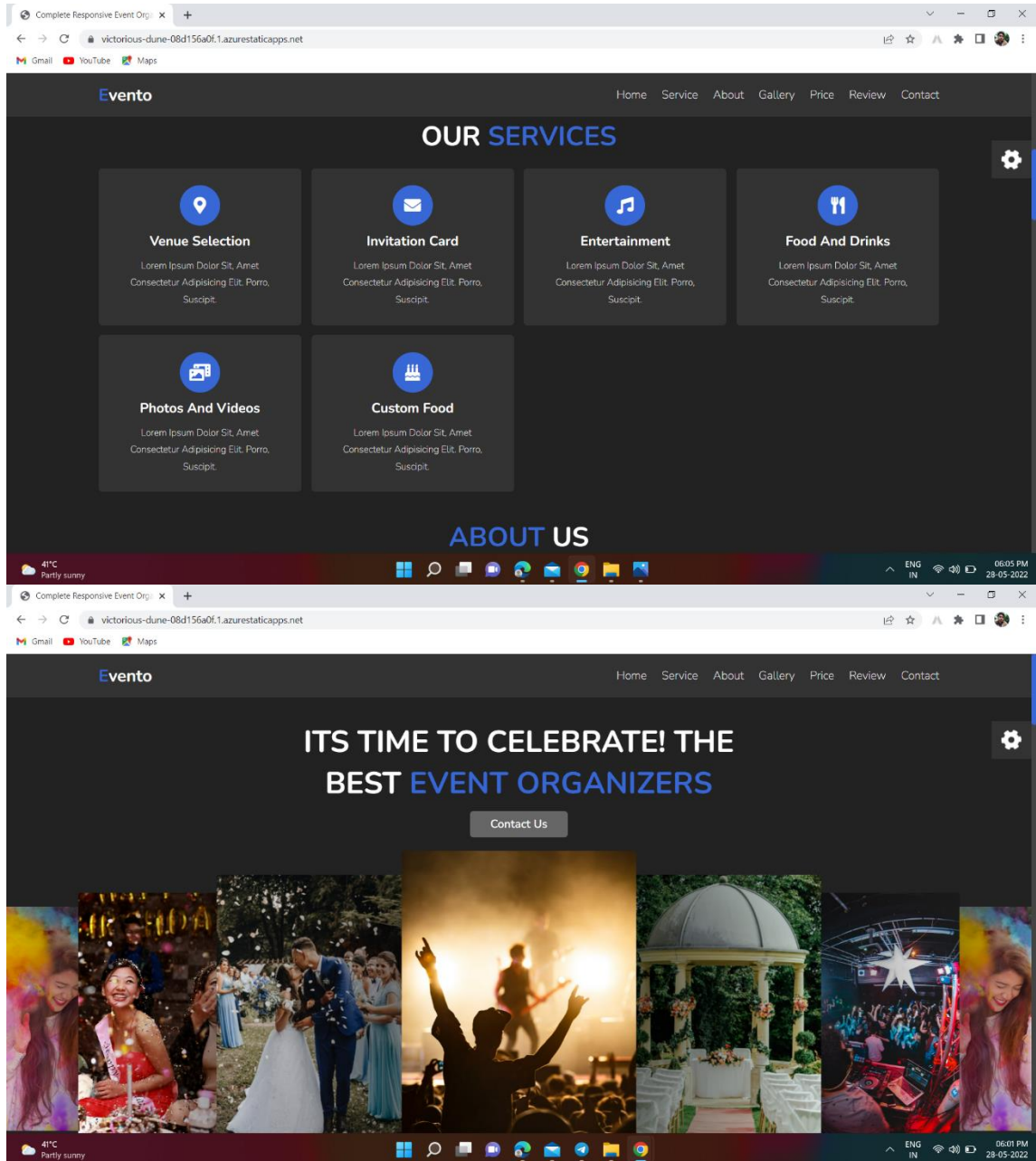
### 3.3 HOW ASSIGNMENT(S) BEEN SOLVED

- I hosted my event management website using Microsoft Azure static web apps.
- Azure Static Web Apps is a service that automatically builds and deploys full stack web apps to Azure from a code repository. The workflow of Azure Static Web Apps is tailored to a developer's daily workflow. Apps are built and deployed based off code changes.

Screenshots:







### 3.3 KNOWLEDGE GAINED

- In this internship, I learned a lot about Creating of Azure Virtual machine and the benefits of using an Azure virtual machine.
  - I also learned about Azure Cosmos DB, Jenkins, Splunk, and selenium and their uses.
  - I learned How to host websites using Microsoft Azure static web apps.
  - Finally, I got more interested using Microsoft Azure which is more user friendly.
  - Microsoft Azure has 54 regions and very fast in providing the services.
-



### 3.4 DURATION TO COMPLETE

Registered before 28th feb:-

- Complete the project submission within the deadline-specified on the FRT Portal
- Edit/update project synopsis any time before project submission.
- 5 attempts for project evaluation.

Registered after 28th feb:-

- Overall 80 days to complete the project
  - Edit/update project synopsis any time before project submission.
  - 5 attempts for project evaluation.
-

### 3.5 MILESTONES

In this Future Ready Talent internship program the milestones i have accomplished are following:-

1. 190+ hours of self-paced learning modules focused on fundamental and core Azure services and skills.
  2. 5 Industry-aligned sessions based on cloud skills relevant to the industry.
  3. Hands-on labs by Microsoft Learn sandbox.
  4. Successful project deployment on Microsoft Azure portal on a problem statement of choice.
-

### 3.6 PROBLEMS ENCOUNTERED AND RESOLUTION OF THE SAME

Future Ready Talent is a virtual internship platform for students with an opportunity to learn the in-demand technology skills and work towards solving real world problem using the power of Microsoft Azure & GitHub tools. The students can earn internship credits on completion of the program with an entry to exclusive career fairs.

Goals of the Program:-

Build industry Ready Talent

Learning opportunity:-

Provides an opportunity to learn the in-demand Azure Cloud & Security skills aligned to industry needs.

Solve Business Challenges:-

The program aims at preparing learners work towards solving business challenges.

Build Innovative Solutions:-

Creating innovative solutions using the power of Microsoft Azure & Github tools.

What's in FRT(Future Ready Talent) for us:-

1. On demand learning - 7 courses-192 hours
2. Industry Readiness Videos-5 vedios- approx.2.10 Hours
3. Student Developer Pack-\$100 Azure Subscription
4. Github Discussion Board- Unlimited Queries & Community Engagement in technical areas.
- 5.Interactive Session- Session to resolve your practical challenges.
- 6.Career Drives- Succesful students gets chance to participate
- 7.Certificate- Internship participation certificate to suuccessful students.

Critical Do's:- with credit Certificate

1. Complete Orientation Page.
  2. Complete Industry Vedios.
  - 3.Complete self learn courses as per defined Learning Path
  4. Mandatory to be logged in both FSP(Future Skills Prime) and MS(Microsoft)Learn to ensure that your progress is captured.
  5. Activate Developer Pack
  6. Projet synopsis submission
-

## 7. Project Submission.

### Industry Sessions:-

Insightful information on the business operations

1.Coverage:- Industry trend vedios covering key challenges faced by organizations,technology landscape,scope for innnovation and identify few technology solutions to optimize their operations.

### 2.Takeways:-

Understand with case studeies on how technology is proactively used to enhance the business operations using Microsoft Azure.

### Self Learning:-

1 Fundamental + 4 Advance Role based programs are mandatory.  
3 courses are optional

Additionally I have completed Azure Fundamentals(AZ-900) certification

I completed all 8 courses listed in FRT.Those are:-

Course Code	Course Name
AI 900	Microsoft Azure AI Fundamentals
AZ 104	Microsoft Azure Administrator
AZ 204	Developing Solutions for Microsoft Azure
AZ 500	Microsoft Azure Security Technologies
DA 100	Analysing Data on Azure with PowerBI
AZ 900	Microsoft Azure Fundamentals
AI 102	Developing & Implementing Microsoft Azuure AI Solutions
Github	Advance Github Modules.

After completion of the courses in the learning path.We need to refresh the learning path, to ensure that the status reflects as completed.

### Project Synopsis:-

- Align your project to one of the 5 industries.
  - Suitable Project Title & Project Description
  - Explain the problem Statement/Opportunity area.
-

-Select & use atleast 2 Azure Services.

-Mention "Other technologies" to be used in your project.

-Claim your student developer pack.

Project Submission:-

Industry Details:- Pick from the dropdown on the website.

Project Title:-

It is selected in in-line with project description.

Problem Statement:-

This talks about the problem or opportunity my solution will address

Project Description:-

This talks about the need of problem/ opportunity and projects basic functionality.

Primary Azure Technology:-

Talks about core services used in my project.

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#### 4. CONCLUSION

1. In this internship, I learned a lot about Creating of Azure Virtual machine and the benefits of using an Azure virtual machine.
2. I also learned about Azure Cosmos DB, Jenkins, Splunk, and selenium and their uses.
3. I learned How to host websites using Microsoft Azure static web apps.
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#### 5. REFERENCES

1. Microsoft Azure documentation [Azure documentation | Microsoft Docs](#)
  2. My project github link: [naveen5655/event-management-system \(github.com\)](https://github.com/naveen5655/event-management-system)
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