

PRACTICAL-10

AIM:

Prepare the detailed case study on Design Thinking Methodology in the area of Azure.

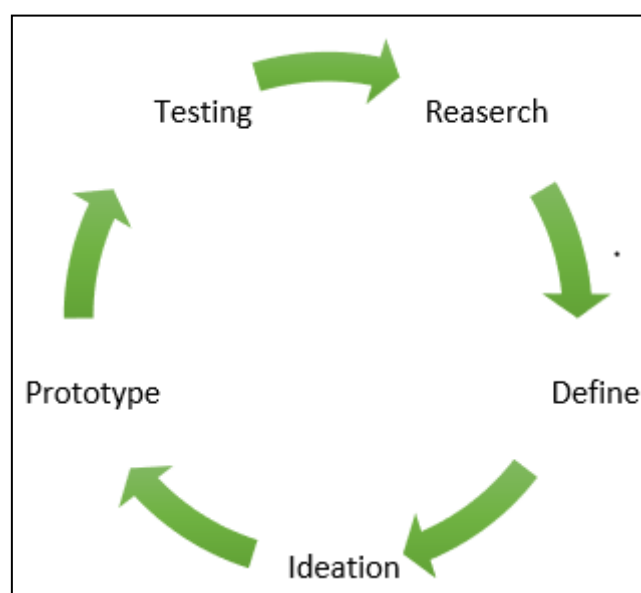
THEORY:

CASE STUDY ON DESIGN THINKING METHODOLOGY

What is Design Thinking?

- Design thinking is a method used by designers in ideation as well as mobile app development.
- It is very useful when complex problem is given by client. It also helps in tackling problems which are unknown. Design Thinking is not only limited to IT field it also helpful in Engineering, medicine, business, architecture, sports, research, etc.

Design Thinking Process:



Research: Research the requirements of the users or target users.

Define: Define and understand the problems using research data.

Ideation: Find the solution for defined problems and ideas.

Prototype: Develop a prototype for solution.

Testing: Test the prototype to check that whether it is developed as per the requirements or not.

These 5 stages are not always sequential; they can occur simultaneously as well as repetitively.

Importance of Design Thinking:

- As Design Thinking has a human-centred approach, it focuses on the end-users and how to make the user experience better and more fulfilling.
- Since it involves multidisciplinary teams, the collective advantage of wisdom, expertise and experience is available while creating solutions.
- It also involves finding solutions in an unconventional way. So, while solving real problems this creates & delivers value to the end-users.
- Going to the market with a MVP (minimum viable product) is totally perfect for design driven firms. In such cases, they learn from the feedback of users, incorporate the same in their build and release an upgraded version of the product. Eg., Facebook, Instagram, Whatsapp and the likes.
- It helps create successful brands and generate ROI from these brands.

Benefits of using design thinking in mobile app development:

- **Increase in sales:** If the UX for end-user is seamless, the end-user will repeatedly use your application. This repeated use suggests brand loyalty which can further result in increase in sales.
- **Current and future marketing trend:** Mobile app is the need of the hour and is also the future of various applications and businesses. Hence, it becomes vital for businesses to develop mobile applications.
- **Marketing on the go:** Marketers can now focus on promoting their business via web and mobile platforms.

- **Ease of connecting to customers:** Customers can provide feedback effortlessly and so companies can learn and improve on their setbacks directly from the customers' feedback.

IMPLEMENTATION:

```
$ git clone https://github.com/Azure-Samples/msdocs-python-flask-webapp-quickstart.git
Cloning into 'msdocs-python-flask-webapp-quickstart'...
remote: Enumerating objects: 108, done.
remote: Counting objects: 100% (17/17), done.
remote: Compressing objects: 100% (14/14), done.
remote: Total 108 (delta 6), reused 9 (delta 3), pack-reused 91
Receiving objects: 100% (108/108), 773.64 KiB | 47.00 KiB/s, done.
Resolving deltas: 100% (48/48), done.
```

Getting the files to local machine

```
$ cd msdocs-python-flask-webapp-quickstart
```

Hovering to the destination

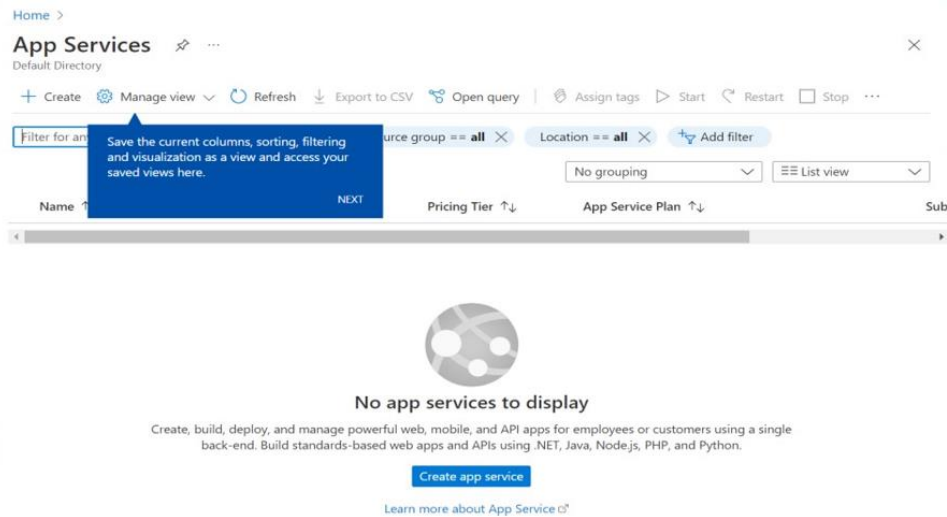
```
$ git status
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean
```

Checking the git status

```
$ git remote -v
origin https://github.com/Azure-Samples/msdocs-python-flask-webapp-quickstart.git (fetch)
origin https://github.com/Azure-Samples/msdocs-python-flask-webapp-quickstart.git (push)
```

Git Remote




Checking out the app services


The screenshot shows the 'Create Web App' wizard in Azure. The top bar has 'Home > App Services >' and 'Create Web App'. Below it, there are tabs for 'Basics', 'Deployment', 'Monitoring', 'Tags', and 'Review + create'. The 'Basics' tab is selected. The main content area has a description of App Service Web Apps and a link 'Learn more'. Below this, there's a 'Project Details' section with a description and a 'Subscription' dropdown set to 'Azure for Students'. There's also a 'Resource Group' dropdown set to '(New) Resource group' with a 'Create new' link. The 'Instance Details' section has a link 'Need a database? Try the new Web + Database experience.' and a 'Name' field with a placeholder 'Web App name.' and a '.azurewebsites.net' suffix. There are radio buttons for 'Publish' set to 'Code', and a 'Runtime stack' dropdown. There are radio buttons for 'Operating System' set to 'Linux', and a 'Region' dropdown set to 'Australia Central'. At the bottom, there's a note: 'Not finding your App Service Plan? Try a different region or select your App Service Environment.'

Creating the web app

Project Details

Select a subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription *  Azure for Students


Resource Group *  (New) 19dcs088-charusat

[Create new](#)

Instance Details

Need a database? [Try the new Web + Database](#)

Name * 19dcs098-charusat

Publish * 

Runtime stack * Select a runtime stack

Operating System ☒ Linux ☐ Windows

A resource group is a container that holds related resources for an Azure solution.

Name *

19dcs098-charusat

OK Cancel


Giving name to the webapp

Spec Picker

Dev / Test
For less demanding workloads

Production
For most production workloads

Isolated
Advanced networking and scale

 The first Basic (B1) core for Linux is free for the first 30 days!

Recommended pricing tiers

F1 1 GB memory 60 minutes/day compute Free	B1 100 total ACU 1.75 GB memory A-Series compute equivalent 946.67 INR/Month (Estimated)
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[See additional options](#)

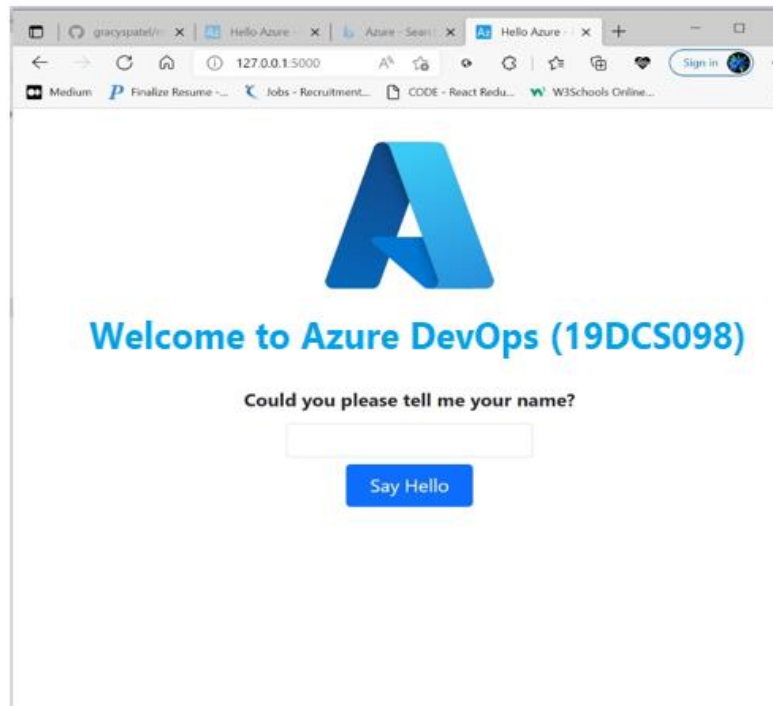
Included hardware

Every instance of your App Service plan will include the following hardware configuration:

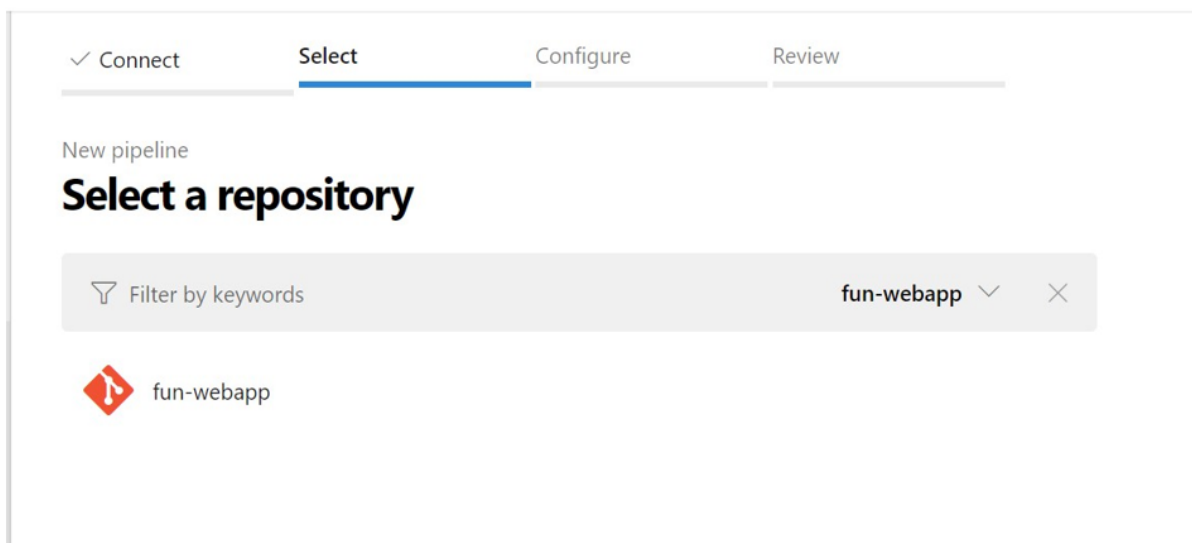
Memory
Memory available to run applications deployed and running in the App Service plan.

Storage
1 GB disk storage shared by all apps deployed in the App Service plan.

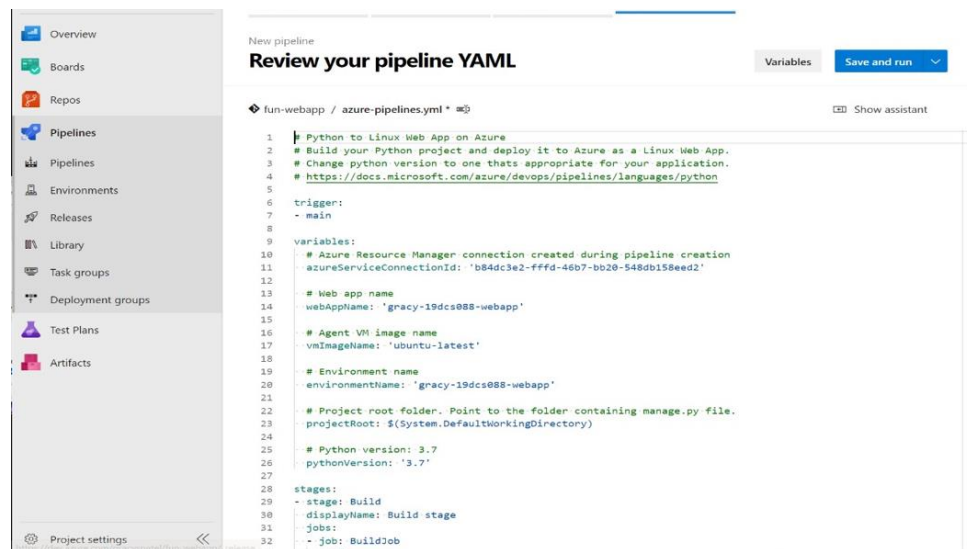
Selecting the web app memory



Setup Completed



Attaching local host project



Reviewing the application

CONCLUSION:

In this practical, I learned about Design Thinking Methodology.