**Azure Resource Group and AI Chatbot Integration**

**1. Understanding Resource Groups**

In Microsoft Azure, a **Resource Group** acts as a container that holds related resources for a specific project.  
It helps organize and manage services efficiently.

For example:

* If you are working on a project related to *Mytra*, you can name the resource group **Mytra**.
* If your project is related to *Amazon*, you can name the resource group **Amazon**, and include all the resources linked to that project.

The main purpose of resource groups is to **simplify management** — the cloud ensures that tasks are automated and easy to handle.

**2. Creating a Storage Account**

When creating a **Storage Account** in Azure, follow these steps:

1. **Name your Service and Storage Account**  
   Choose a unique and meaningful name for easy identification.
2. **Confirm the Region**  
   Select the region closest to your users or project location to reduce latency.
3. **Choose the Performance Tier**
   * *Standard*: For general-purpose storage.
   * *Premium*: For high-performance workloads.
4. **Select Redundancy Options** (Data Replication Types):
   * **LRS (Locally Redundant Storage):** Data is copied within a single data center.
   * **ZRS (Zone Redundant Storage):** Data is replicated across multiple zones within a region.
   * **GRS (Geo-Redundant Storage):** Data is replicated to a secondary region for disaster recovery.
   * **GZRS (Geo-Zone Redundant Storage):** Combines ZRS and GRS for maximum reliability.
5. **Enable Static Website Hosting**  
   This option allows you to host a simple website directly from the storage account.
6. **Enable Data Protection**  
   Works like a *recycle bin* — allows recovery of deleted data.
7. **Store Structured Data**  
   Use **Tables** for structured data and **Containers** for unstructured data such as images or videos.
8. **Upload Files**
   * Go to **Containers → Web**.
   * Use the **Upload** option on the right-hand corner to browse and upload your website files.

**3. Chatbot Integration to Website**

After setting up your website, integrate a **Chatbot** using Azure AI services.

**AI Services Used**

1. **Language Service (QnA Maker / Custom Question Answering)**  
   Used to create intelligent question-and-answer systems.
2. **Azure Bot Service**  
   Used to deploy and manage the chatbot.

**4. Steps to Create a Q&A Chatbot using Language Studio**

1. Open the **Azure Portal** and click on **Create Resource**.
2. Search for **Language Service** and click **Create**.
3. Fill in the basic details:
   * Resource Group: Select the same one you created earlier.
   * Pricing Tier: Choose the **Free** plan.
4. Click **Review + Create**, then **Create**.
5. Once created, go to **Language Studio**.
6. Choose **Custom Question Answering** on the left side and click **Continue to Create**.
7. Upload your **Question and Answer** data in the Language Studio.

8.Test your chatbot using the built-in interface.

**5. Final Website Integration**

After configuring your chatbot:

* Connect it to your website using **Azure Bot Framework** or a simple **iframe embed**.
* Test the chatbot to ensure it answers correctly based on your uploaded data.