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EX NO. 10**

**IMPLEMENTATION**

Aim:

To implement the given project based on Agile Methodology.

Procedure:

Step 1: Set Up an Azure DevOps Project

● Log in to Azure DevOps.

● Click "New Project" → Enter project name → Click "Create".

● Inside the project, navigate to "Repos" to store the code.

Step 2: Add Your Web Application Code

● Navigate to Repos → Click "Clone" to get the Git URL.

● Open Visual Studio Code / Terminal and run:

git clone <repo\_url>

cd <repo\_folder>

● Add web application code (HTML, CSS, JavaScript, React, Angular, or backend like

Node.js, .NET, Python, etc.).

● Commit & push:

git add .

git commit -m "Initial commit"

git push origin main

Step 3: Set Up Build Pipeline (CI/CD - Continuous Integration)

● Navigate to Pipelines → Click "New Pipeline".

● Select Git Repository (Azure Repos, GitHub, or Bitbucket).

● Choose Starter Pipeline or a pre-configured template for your framework.

● Modify the azure-pipelines.yml file (Example for a Node.js app):

trigger: - main

pool:

vmImage: 'ubuntu-latest'

steps: - task: UseNode@1

inputs:

version: '16.x' - script: npm install

displayName: 'Install dependencies' - script: npm run build

displayName: 'Build application' - task: PublishBuildArtifacts@1

inputs:

pathToPublish: 'dist'

artifactName: 'drop'

Click "Save and Run" → The pipeline will start building app.

Step 4: Set Up Release Pipeline (CD - Continuous Deployment)

● Go to Releases → Click "New Release Pipeline".

● Select Azure App Service or Virtual Machines (VMs) for deployment.

● Add an artifact (from the build pipeline).

● Configure deployment stages (Dev, QA, Production).

● Click "Deploy" to push your web app to Azure.

Result

Thus the application was successfully implemented.