DevOps Agile Tools – Work Items - Epics Features Stories Tasks

[✅ Task 1: Work Items (Epics, Features, Stories, Tasks) – Agile Project Management in Azure DevOps 1](#_Toc205548965)

[1. 🎯 Purpose 1](#_Toc205548966)

[2. 📖 Theory 1](#_Toc205548967)

[3. 🧰 Prerequisites 2](#_Toc205548968)

[4. 💻 Steps to Create Work Items in Azure DevOps 2](#_Toc205548969)

[5. 📷 Azure DevOps Screenshot (Structure) 2](#_Toc205548970)

[6. 📝 Summary 3](#_Toc205548971)

## ✅ **Task 1: Work Items (Epics, Features, Stories, Tasks)** – Agile Project Management in Azure DevOps

### 1. 🎯 **Purpose**

To understand how to structure and manage software development work in Azure DevOps using **Work Items** such as:

* Epics
* Features
* User Stories
* Tasks  
  This supports Agile project tracking and traceability from planning to deployment.

### 2. 📖 **Theory**

#### 🔹 **What are Work Items?**

Work Items are units of work tracked in Azure DevOps. They help organize, track, and plan work efficiently across teams.

#### 🔹 **Work Item Hierarchy:**

| **Level** | **Description** | **Example** |
| --- | --- | --- |
| **Epic** | High-level business goal | “Modernize HR System” |
| **Feature** | Big component or milestone within Epic | “Implement Employee Leave Module” |
| **User Story** | Functional requirement for the end-user | “As an employee, I want to apply leave online” |
| **Task** | Small technical unit to complete a story | “Create frontend form for leave request” |

#### 🔹 **Bug Work Item (Optional)**

Used to track defects and issues during testing or production.

### 3. 🧰 **Prerequisites**

* Azure DevOps account ([https://dev.azure.com](https://dev.azure.com/))
* Organization and Project created
* Basic familiarity with Agile concepts (Epics, Stories)

### 4. 💻 **Steps to Create Work Items in Azure DevOps**

#### ✅ Step-by-Step: Creating a Work Item

1. **Login to Azure DevOps**  
   Go to [https://dev.azure.com](https://dev.azure.com/) and select your organization and project.
2. **Navigate to Boards > Work Items**
   * You will see all existing work items.
   * Use filters for My Work, Assigned to Me, Recently Created, etc.
3. **Create a New Epic**
   * Click **New Work Item > Epic**
   * Enter:
     + **Title**: “Modernize HR System”
     + **Description**, **Area Path**, **Iteration Path**
   * Click **Save & Close**
4. **Create a Feature under Epic**
   * Click **Boards > Backlogs**
   * Switch view to **Epics**
   * Click the created Epic → Right-click → **Add Feature**
   * Example: “Implement Leave Management Module”
5. **Create User Stories under Feature**
   * Switch view to **Features**
   * Select Feature → Add **User Story**
   * Example: “Employee applies for leave online”
6. **Add Tasks to User Story**
   * Open the User Story → Click **Add Task**
   * Example: “Design UI for leave form”, “Create API for leave request”

### 5. 📷 **Azure DevOps Screenshot (Structure)**

Epic: Modernize HR System

└── Feature: Leave Management Module

└── User Story: Employee applies for leave online

├── Task: Design UI for leave form

└── Task: Create leave API backend

### 6. 📝 **Summary**

| **Key Element** | **Description** |
| --- | --- |
| **Work Items** | Unit of Agile work (Epics → Features → Stories → Tasks) |
| **Purpose** | Manage and organize software development |
| **Tool** | Azure DevOps → Boards section |
| **Outcome** | Clear structure of project scope, priorities, and progress |