**Required points to be in the project with images:**

1. Create new Project in Azure Devops with Git and Scrum Process

A screenshot of a computer

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1. Create 1 new team so you will have 2 teams in your project
2. 3- Each team is 2-3 members

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1. Configure your project (Iterations and Areas of your project). Your project will contains 4 sprints and 3 areas.

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1. Each sprint will be 2 weeks. The first 2 sprints will be available to each team. Sprint 3 appears to team 1 while sprint 4 appears to team 2.

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1. Create your product backlog work items hierarchy. The hierarchy of your work items (Epic => Feature => Product Backlog items => Tasks and Bugs). Your project must contain all these work items with this hierarchy (at least 20-30 tasks)+

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1. Epics and Features work items are the same for the two teams (don’t write them 2 times for the 2 teams (write them one time and display them to the two teams)). When displaying Backlog items, each team should have different backlog items with their tasks or bugs

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1. Fill in the fields of each work item (work item card). Example: fields like (Title, Assigned To, State, Iteration, Description, Effort, Priority, etc.).

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1. Each member in a team should has his own Tag placed in his own work items. Also add a tag for any work item in (In progress) mode. Project manager (project administrator) should follow up specific work items and get notified when it is done.

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1. Add these product backlogs to your Sprints. In Sprints Taskboard, show me your Sprint work items (Cards) including bugs work items in these different phases during your development

Graphical user interface, application, Word

Description automatically generated

1. Customize fields that will appear on the cards on the Sprints Taskboard. Example: add fields like (Created By and Created Date). Set Styling Rules for your cards to have different colors when they are in different phases. Also, add styling rules for your tags.

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1. Allocate the effort (remaining work) to each task on sprint Taskboard and Calculate the resources capacity (team member work hours). Compare the available resource capacity with the total sprint effort to see the load of every team member in the sprint. Show me case of overloaded team member (team member has many tasks more than his available working hours during this sprint).

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1. Make some queries to help your project manager (project administrator) • Show all items under epic of team 1 in hierarchy way (show the items from epic to tasks in hierarchy) • Show all work items that are not in any tag

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1. Use Git version control in your project. Clone your Azure Repository to your local machine. Push your commits to your local repository then to Azure Repository

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1. This figure is required (master is second horizontal line)

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1. Link your work items with your commits

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1. Make 2 branches on Azure Repos and make commits in them so that a conflict occurs. Solve this conflict by merging them on Azure Repo (Not locally)

Text

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Graphical user interface

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Text

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1. Consider me a Project manager for your team, Use dashboard to show me charts about your work progress. Connect Azure Dashboard with Power BI Desktop to show charts on it. Use some of the shared analytics (default analytics) along with your custom charts. Add some fields to shared analytics that will show in Power BI charts

Graphical user interface, diagram

Description automatically generated

1. Add some charts to show me (Dashboard and Power BI): • The number of work left relative to time • Number of Bugs found related to sprint 1 • Priority of tasks related to team 2 • Tasks - Last 10 days

Graphical user interface, application

Description automatically generated

1. Build your project online whenever new code commit is done (pushed) on azure repository. Also you need to use modular virtual machines like Dockers

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