

**WDMM 3314 Web and Multimedia Engineering  
SDEV 2301 Principles of Software Engineering**

# Project

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**Lecture 7 (23 Sep. 2023)**

**Week 3**



# Project requirements

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- The students must learn and use the following software tools carefully:
  - Microsoft (MS) MS Project
  - Visual Paradigm
  - Visual Studio Code
  - NetBeans
- The students must have good experience with at least one of the following programming languages:
  - Java
  - JavaScript
  - PHP
  - Python

# Microsoft (MS) Project

- **Microsoft Project** is a project management software product, developed and sold by **Microsoft**. It is designed to assist a project manager in **developing a schedule, assigning resources to tasks, tracking progress, managing the budget, and analyzing workloads**.
- <https://www.microsoft.com/en-us/microsoft-365/project/project-management>



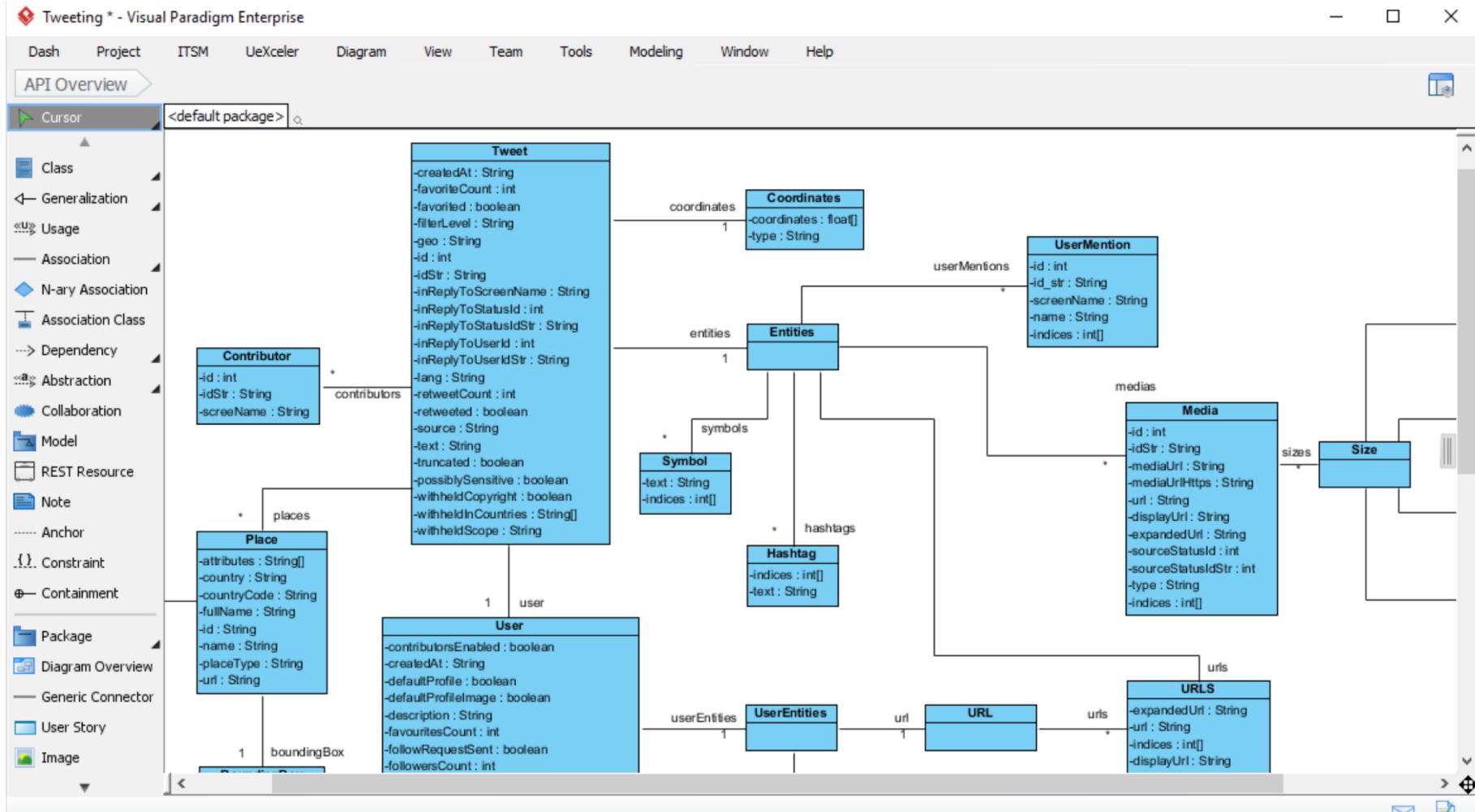
# Visual Paradigm

- **Visual Paradigm** is a **UML CASE Tool** supporting **UML 2**, Systems modeling language (**SysML**) and **Business Process Modeling**. In addition to the modeling support, it provides **report generation** and **code engineering capabilities** including **code generation**.



**Visual Paradigm**

# Visual Paradigm





# Project Guidelines

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- Group of **2 to 3 students** is assigned a project.
- **Deliverables:** **documentation** for project plan, system specification, design, implementation, testing and operational software application, in addition to a **recorded video** (a presentation explains the developed web application).
- Written in **English** and adhered to the project **template**.
- Divided into **sections**; and submitted before the due date.
- Selected **proposed projects** are provided, although you can propose your own project (must be approved).
- Upload the web application and the video on your **Google drive** and submit a link for it on Moodle before due date.

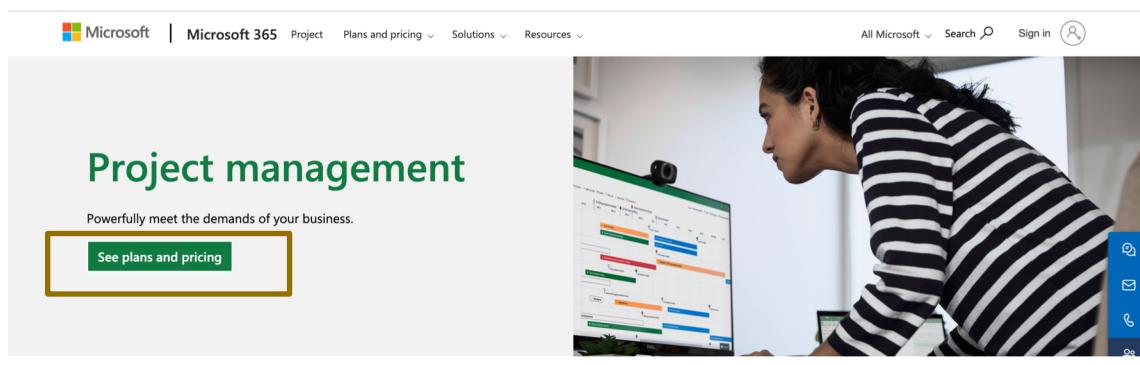
# Proposed Projects

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- Point of Sale Management System
  - Laboratory Management System
  - Clinic Management System
  - Training Courses Center
  - Human Resources System for Small Business
  - Bookshop Management System
  - Faculty Management System in a University
  - Mobile/Computer Selling Center
  - Charitable Organization Management System
  - Events Scheduling Systems
  - Digital Products Management Systems
  - Accounting System for Small Business
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The screenshot shows the Microsoft Project management page. At the top, there's a navigation bar with the Microsoft logo, 'Microsoft 365 Project', 'Plans and pricing', 'Solutions', and 'Resources'. Below the navigation is a search bar and a 'Sign in' button. The main content area features a large green header 'Project management' with the subtext 'Powerfully meet the demands of your business.' and a 'See plans and pricing' button. To the right is a photograph of a woman in a striped shirt looking at a large screen displaying a Gantt chart. On the far right, there's a vertical sidebar with icons for messaging, email, and phone.



# MS Project Installation (1/7)

- ❑ If you prefer a **browser-based version** of the Project, you can opt for Plan 1. However, if you wish to download the **application**, you will need to consider either Plan 3 or 5.

## Compare project management solutions and costs

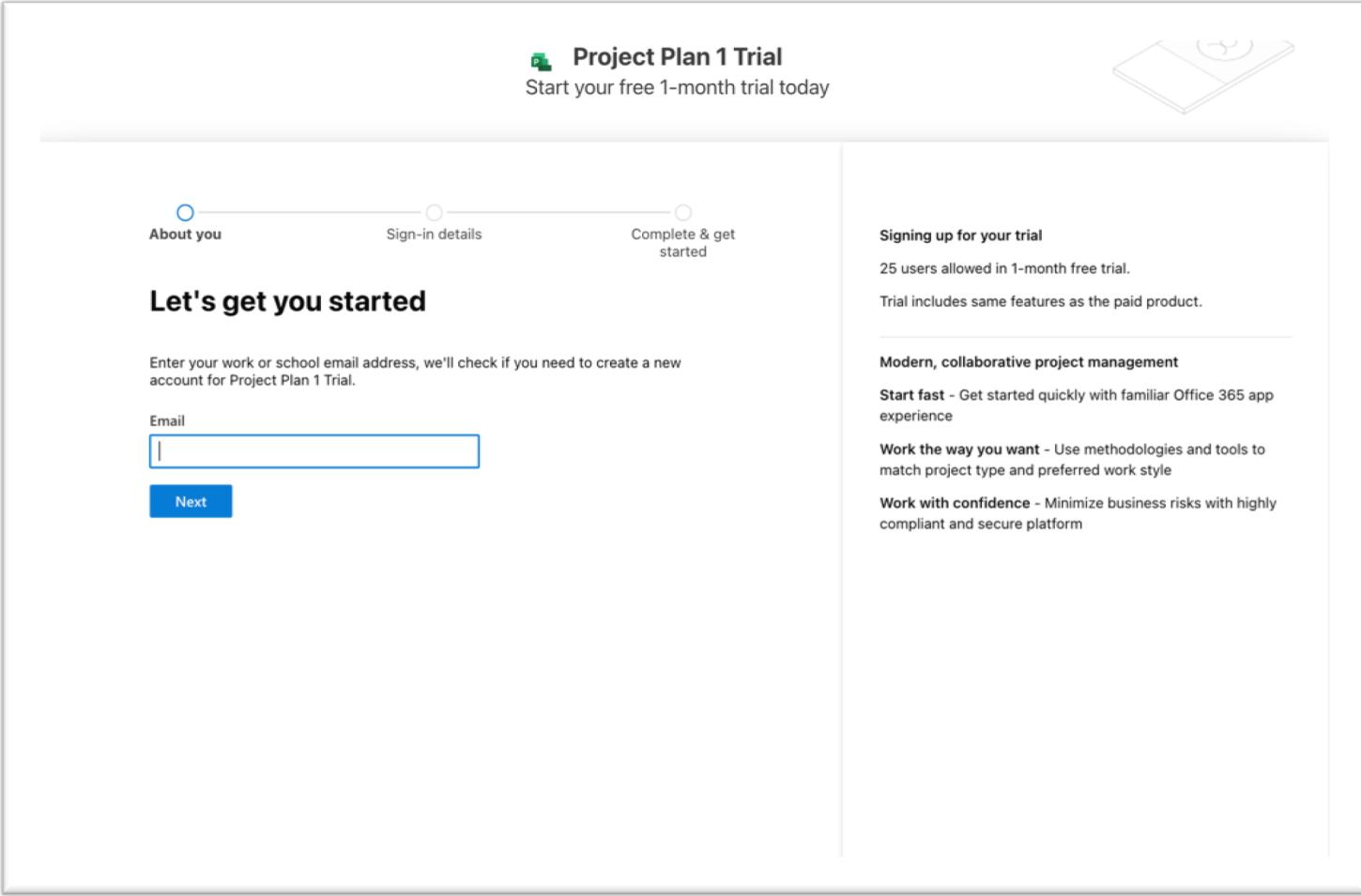
Cloud-based solutions      On-premises solutions

| Project Plan 1   | Project Plan 3   | Project Plan 5  |
|--|--|---|
| \$10.00 user/month   | \$30.00 user/month   | \$55.00 user/month  |
| <a href="#">Buy now</a>  | <a href="#">Buy now</a>  | <a href="#">Buy now</a>   |
| <a href="#">Try free for one month<sup>2</sup></a>   | <a href="#">Try free for one month<sup>2</sup></a>   | <a href="#">Try now with a partner</a>  |
| Start quickly and manage projects easily via the web browser.<br><a href="#">Learn more &gt;</a> | Execute projects with ease with familiar scheduling tools through your choice of the web browser or desktop client.<br><a href="#">Learn more &gt;</a> | Optimize your project portfolio to prioritize initiatives and get the results you want through your choice of the web browser or desktop client.<br><a href="#">Learn more &gt;</a> |

✓ Partial checkmark icons indicate a feature is partially included  
✓ Checkmark icons indicate a feature is included

# MS Project Installation (2/7)

- You will have to create your new account. Enter a valid email address and click Set Up account.



The screenshot shows the first step of the Microsoft Project Plan 1 Trial sign-up process. At the top, it says "Project Plan 1 Trial" and "Start your free 1-month trial today". Below that is a three-step progress bar: "About you" (selected), "Sign-in details", and "Complete & get started". The main section is titled "Let's get you started" and contains a placeholder text: "Enter your work or school email address, we'll check if you need to create a new account for Project Plan 1 Trial." Below this is an "Email" input field with a blue border and a "Next" button. To the right, there is descriptive text about the trial: "25 users allowed in 1-month free trial. Trial includes same features as the paid product." Further down, there are sections for "Modern, collaborative project management", "Start fast - Get started quickly with familiar Office 365 app experience", "Work the way you want - Use methodologies and tools to match project type and preferred work style", and "Work with confidence - Minimize business risks with highly compliant and secure platform".

# MS Project Installation (3/7)

- Fill in your first and last name, business phone number, name of your company, number of employees, and the country or region where your business is located, and then click Next.

About you      Sign-in details      Complete & get started

**Tell us about yourself**

First name \*      Middle name (Optional)

Nour     

Last name \*

Alserri     

Business phone number \*

This is required

Company name \*      Company size \*

Private      5-9 people

Country or Region \*

Palestinian Authority     

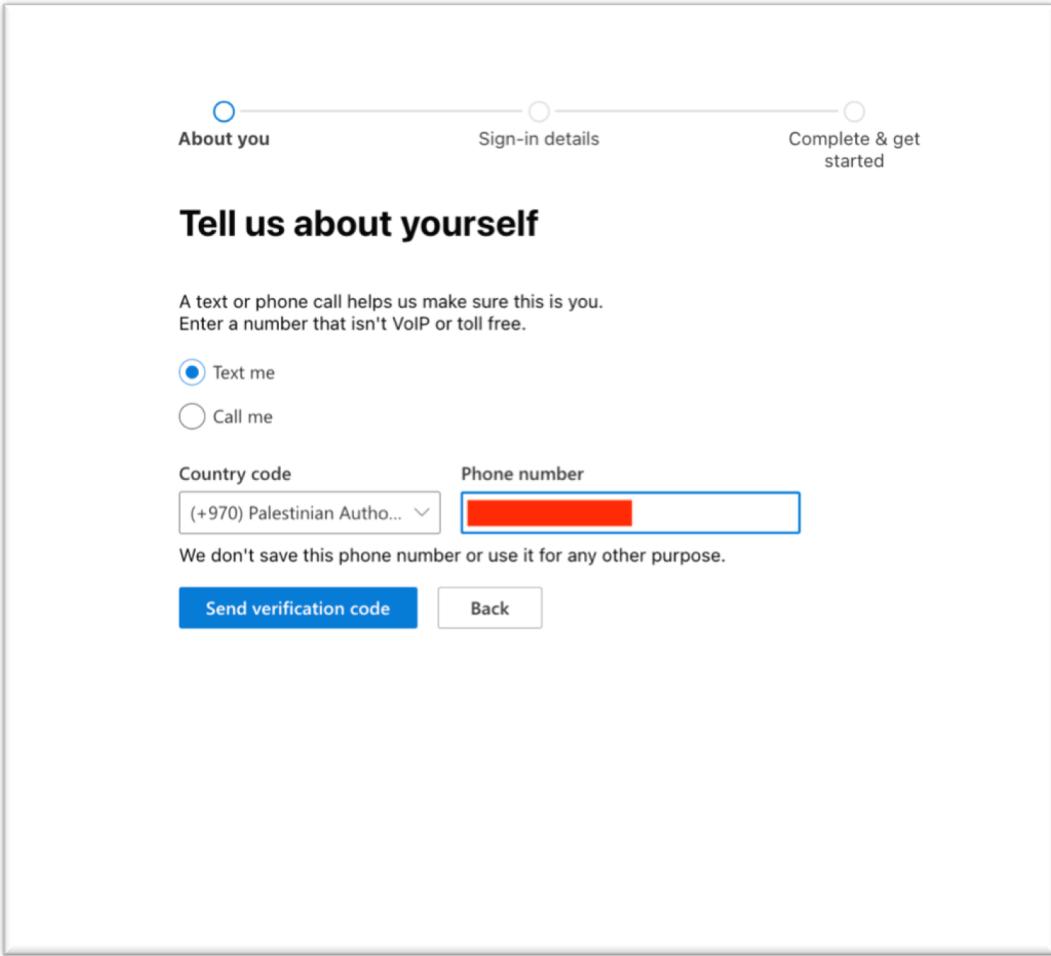
I understand that Microsoft may contact me about my trial.

I would like information, tips, and offers about Solutions for Businesses and Organizations and other Microsoft products and services. To learn more, or to unsubscribe at any time, view the [Privacy Statement](#).

I would like Microsoft to share my information with select partners so I can receive relevant information about their products and services. To learn more, or to unsubscribe at any time, view the [Privacy Statement](#).

# MS Project Installation (4/7)

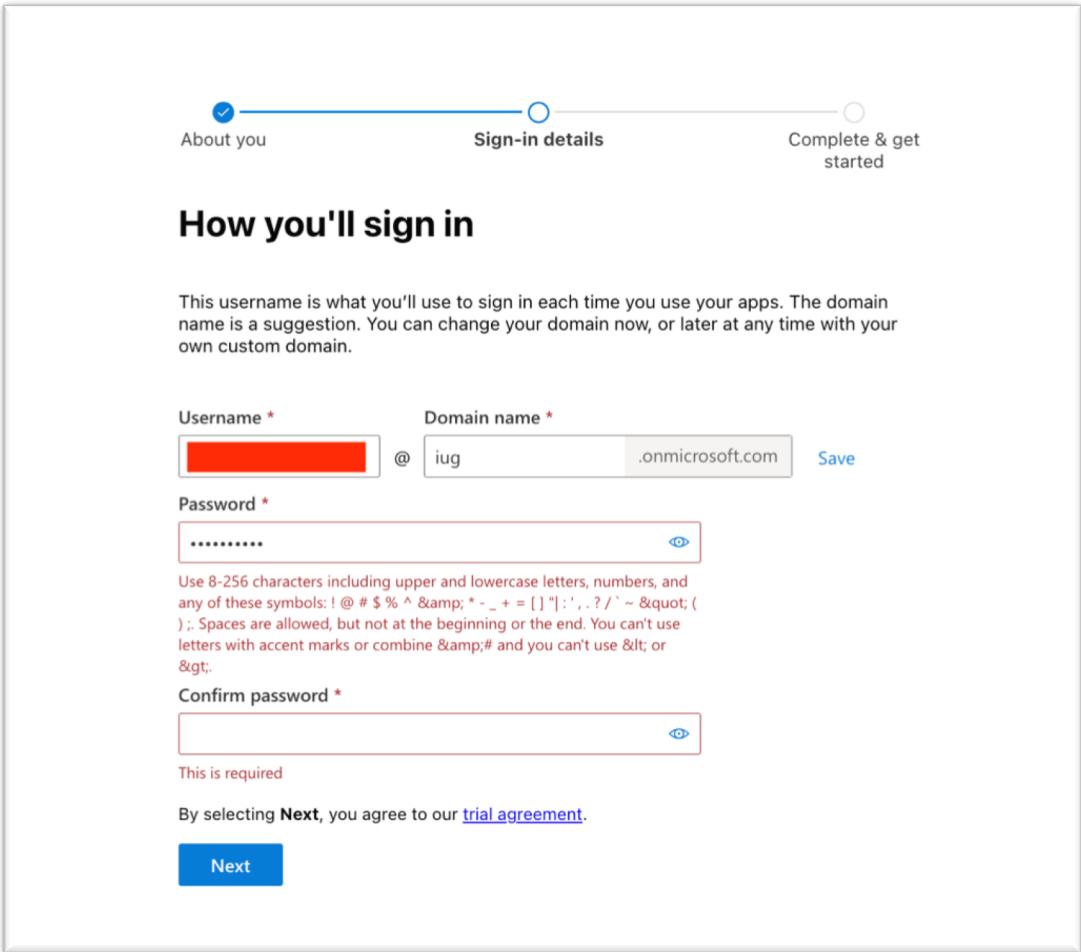
- Microsoft will verify your account by sending a text or calling your phone number. After you input the 8-digit code, press the Verify button.



The screenshot shows a Microsoft account setup process. At the top, there are three circular progress indicators: 'About you' (filled blue), 'Sign-in details' (empty white), and 'Complete & get started' (empty white). Below this, the heading 'Tell us about yourself' is displayed in bold black font. A sub-instruction reads: 'A text or phone call helps us make sure this is you. Enter a number that isn't VoIP or toll free.' Two radio button options are shown: 'Text me' (selected, indicated by a blue dot) and 'Call me'. Below these are two input fields: 'Country code' (dropdown menu showing '+970 Palestinian Autho...') and 'Phone number' (text input field containing a redacted value). A note at the bottom states: 'We don't save this phone number or use it for any other purpose.' At the bottom of the screen are two buttons: 'Send verification code' (blue) and 'Back' (white).

# MS Project Installation (5/7)

- In order to set up the account, it is necessary to have a domain name. Microsoft provides a domain name that concludes with **".onmicrosoft.com"**.



The screenshot shows a three-step wizard for account setup:

- About you**: Step 1, completed.
- Sign-in details**: Step 2, currently selected.
- Complete & get started**: Step 3, not yet reached.

**How you'll sign in**

This username is what you'll use to sign in each time you use your apps. The domain name is a suggestion. You can change your domain now, or later at any time with your own custom domain.

**Username \*** [Redacted] @ **Domain name \*** iug .onmicrosoft.com **Save**

**Password \*** [Redacted] **Confirm password \*** [Redacted]

Use 8-256 characters including upper and lowercase letters, numbers, and any of these symbols: ! @ # \$ % ^ & \* - \_ + = [ ] " : ' , . ? / ' ~ &quot; ( ) ; . Spaces are allowed, but not at the beginning or the end. You can't use letters with accent marks or combine &# and you can't use &lt; or &gt;.

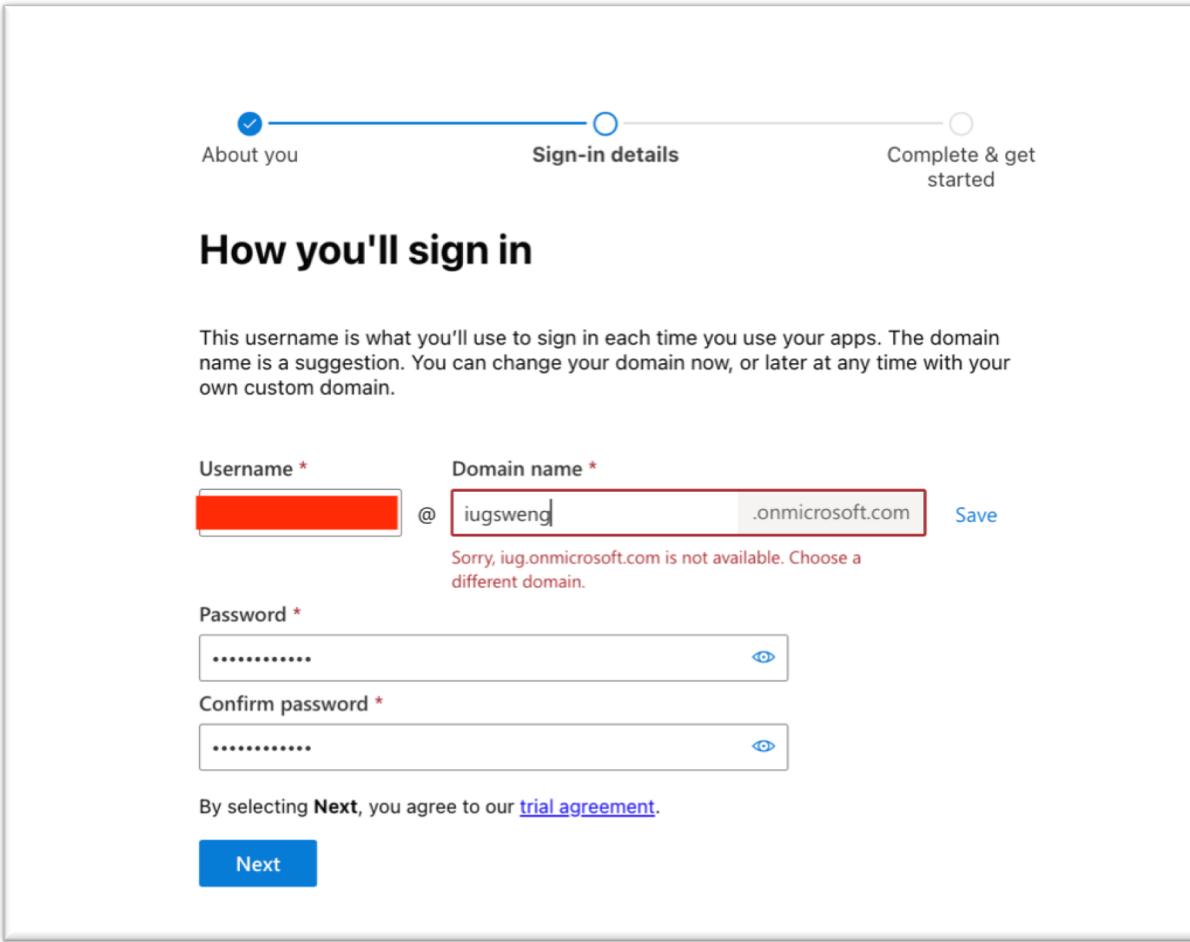
This is required

By selecting **Next**, you agree to our [trial agreement](#).

**Next**

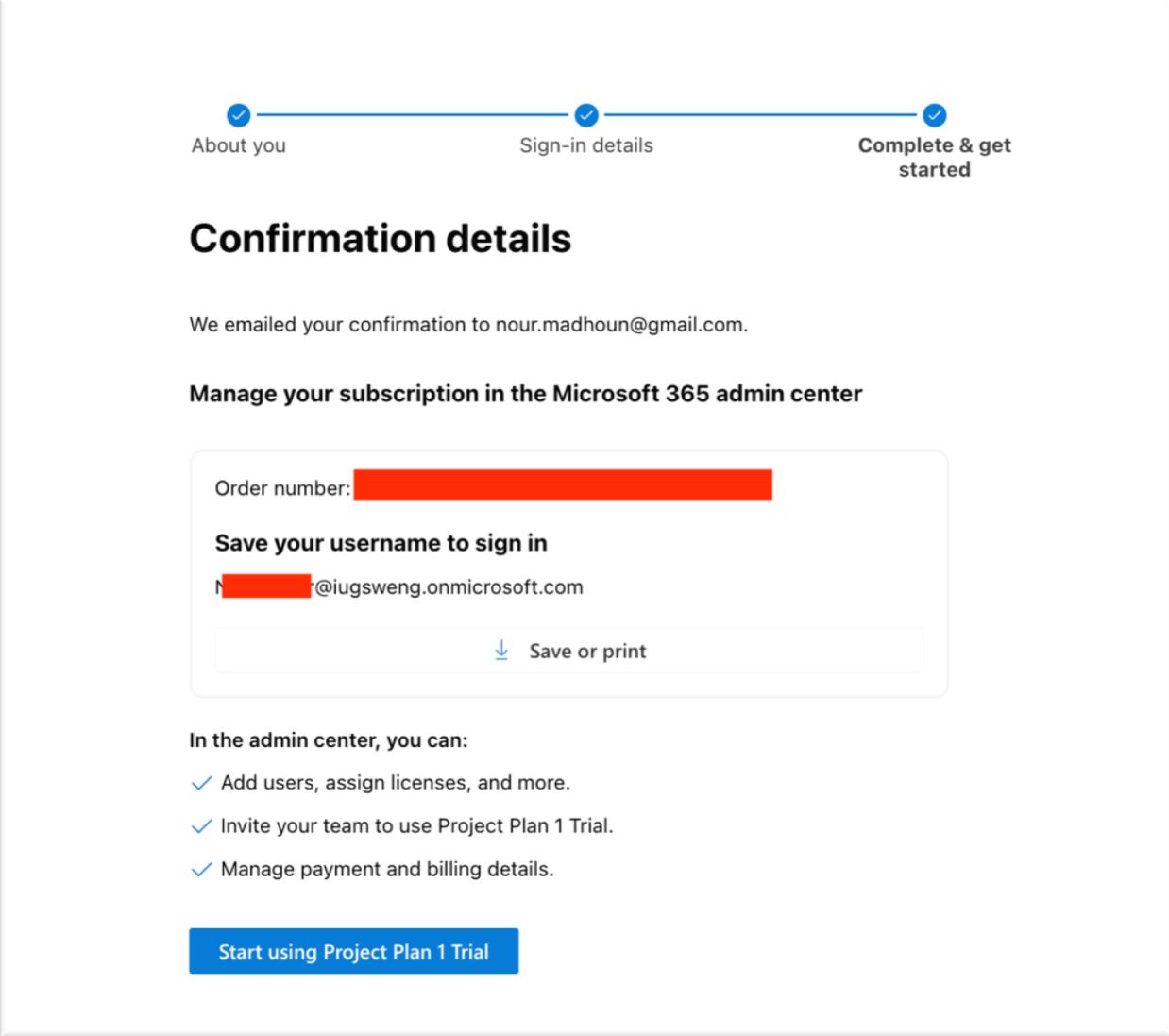
# MS Project Installation (5/7)

- Simply input your business name to generate the domain name (**unique**) and set up your own **unique username** and **password**.



The screenshot shows the 'Sign-in details' step of a Microsoft account setup wizard. At the top, there's a progress bar with three steps: 'About you' (completed), 'Sign-in details' (current step), and 'Complete & get started'. Below the progress bar, the heading 'How you'll sign in' is displayed. A note explains that the chosen username will be used for sign-in and that a domain suggestion (.onmicrosoft.com) is provided, which can be changed later. The 'Username \*' field is filled with a redacted placeholder. The 'Domain name \*' field contains 'iugsweng' followed by '.onmicrosoft.com' and a 'Save' button. A message below the domain field states 'Sorry, iug.onmicrosoft.com is not available. Choose a different domain.' Below the domain fields are 'Password \*' and 'Confirm password \*' fields, both containing redacted placeholder text. At the bottom, a note says 'By selecting **Next**, you agree to our [trial agreement](#)'. A blue 'Next' button is at the bottom left.

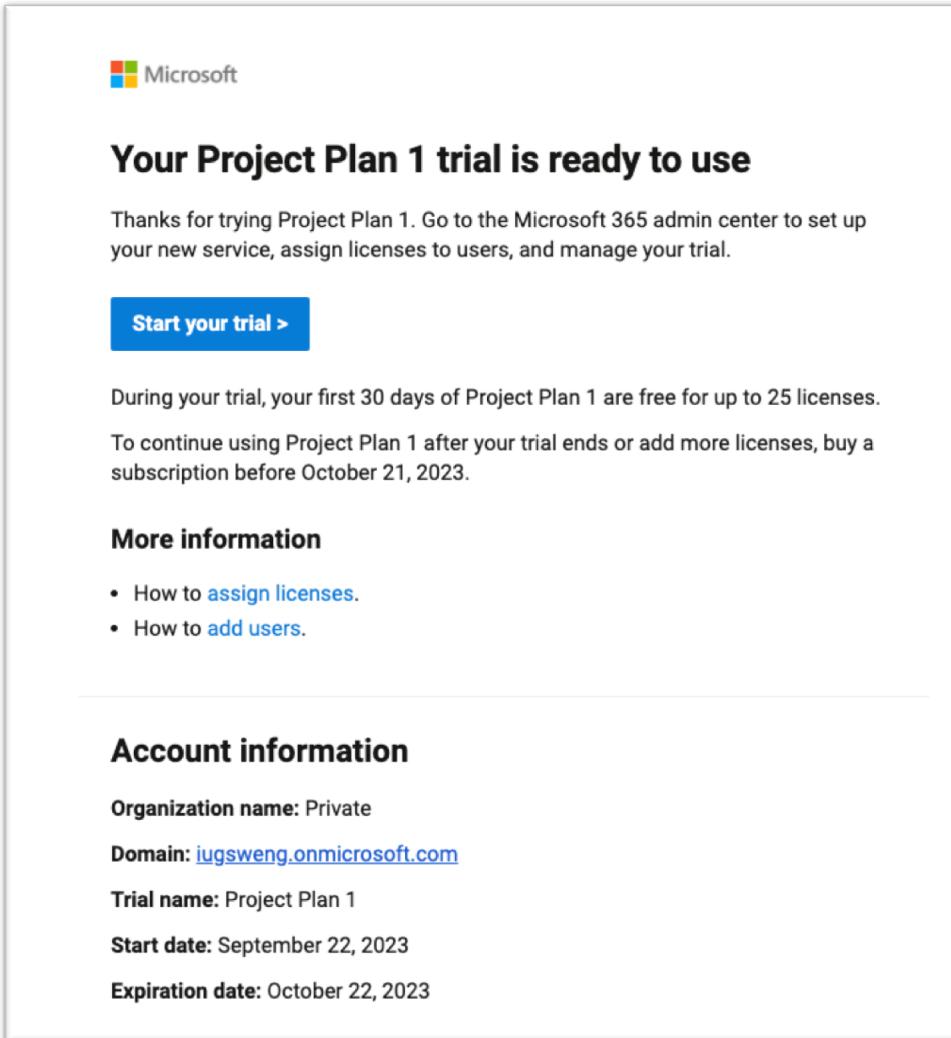
# MS Project Installation (6/7)



The screenshot shows a confirmation page from the Microsoft 365 admin center. At the top, there is a progress bar with three steps: "About you" (checkmark), "Sign-in details" (checkmark), and "Complete & get started" (checkmark). Below the progress bar, the section title "Confirmation details" is displayed in bold black font. A message states: "We emailed your confirmation to nour.madhoun@gmail.com." Below this, a link "Manage your subscription in the Microsoft 365 admin center" is provided. A redacted "Order number" field is shown. Under "Save your username to sign in", the email address "N [REDACTED]r@iugsweng.onmicrosoft.com" is listed. A "Save or print" button is at the bottom of this section. In the middle of the page, the text "In the admin center, you can:" is followed by a bulleted list: "✓ Add users, assign licenses, and more.", "✓ Invite your team to use Project Plan 1 Trial.", and "✓ Manage payment and billing details.". At the bottom, a blue button labeled "Start using Project Plan 1 Trial" is visible.

# MS Project Installation (7/7)

## □ Email Confirmation.



The image shows a screenshot of an email from Microsoft confirming a Project Plan 1 trial. The email includes the Microsoft logo, a main message about the trial being ready, a 'Start your trial >' button, information about the trial period, a 'More information' section with links to assign licenses and add users, and a 'Account information' section detailing the organization name, domain, trial name, start date, and expiration date.

**Your Project Plan 1 trial is ready to use**

Thanks for trying Project Plan 1. Go to the Microsoft 365 admin center to set up your new service, assign licenses to users, and manage your trial.

[Start your trial >](#)

During your trial, your first 30 days of Project Plan 1 are free for up to 25 licenses.

To continue using Project Plan 1 after your trial ends or add more licenses, buy a subscription before October 21, 2023.

**More information**

- How to [assign licenses](#).
- How to [add users](#).

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**Account information**

**Organization name:** Private

**Domain:** [iugsweng.onmicrosoft.com](https://iugsweng.onmicrosoft.com)

**Trial name:** Project Plan 1

**Start date:** September 22, 2023

**Expiration date:** October 22, 2023



# Case Studies (Book)

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- A personal insulin pump.
- A mental health care patient management system.
- A wilderness weather station.
- iLearn: a digital learning environment.

**Do you  
have  
any  
QUESTIONS  
?!**

