**Note:** If you already have a Bitbucket account, skip the first two steps and proceed with creating a new workspace or using an existing one.

# **Creating a Bitbucket Account and Setting-up Workspace:**

1. **Visit Bitbucket:**

* Open your web browser and go to <https://bitbucket.org/>.

1. **Sign Up for an Account:**

* Click the "Get it free" button and then click “Next”.
* Fill in your email address.
* To complete setup and log in, click the verification link in the email they’ve sent to your email address.

1. **Create Your Workspace:**

* After signing in, you can create a new workspace or use an existing one. If you're creating a new workspace, follow these steps:
  + Click on your profile picture or avatar in the top-right corner of the Bitbucket interface.
  + Select "Workspaces."
  + Click the "Create workspace" button.
  + Provide a name for your workspace starting with a "u" and followed by your student ID (e.g., "u123456"). If your student ID contains non-numeric characters such as “.” or “\_”, omit them. For example, if your student ID is "u123456.1," use "u1234561" as your workspace name.
  + Click "Create Workspace."

# **Generating an App Password:**

1. **Access Your Bitbucket Account:**

* Log in to your Bitbucket account using your username and password.

1. **Navigate to App Passwords:**

* Click on your profile picture or avatar in the top-right corner of the Bitbucket interface.
* Select "Bitbucket settings."

1. **Generate an App Password:**

* In the left sidebar, under "Access management," click on "App passwords."
* Click the "Create app password" button.
* Provide a label for the app password (e.g., "dblab") and check all the permissions to gain full control.
* Click "Create."

1. **Copy the App Password:**

* After generating the app password, it will be displayed on the screen. Copy it to your clipboard. **NOTE:** YOU WILL NOT BE ABLE TO SEE THIS PASSWORD AGAIN, SO KEEP IT SECURE.

# **Forking the Repository Using Bitbucket’s User Interface**

1. **Sign in to Bitbucket**

* Go to [bitbucket.org](https://bitbucket.org)
* Sign in with your Bitbucket credentials.

1. **Access the Repository**

* Once signed in, open the link to the repository: <https://bitbucket.org/erdemturk/dblab2024/src/main/>
* This will take you to the repository's main page.

1. **Fork the Repository**

* At the top-right corner of the repository page, click the **“...” icon** (next to the Clone button).
* From the dropdown menu, select **“Fork this repository.”**

1. **Configure the Fork**

* **Repository Name**: Leave the repository name as dblab2024 (do not change it).
* **Project name**: You can name it as ceng3005
* **Workspace**: Select the workspace that you created at the beginning. The workspace name should start with "u" followed by your student ID (e.g., u123456).
* **Privacy**: Set the forked repository to **Public** so that we can view it.
* **Forking Settings**: Leave all other settings unchanged.

1. **Create the Fork**

* Once you have configured the settings, click the “Fork repository” button.
* Bitbucket will create a copy of the repository under your workspace.

1. **Access the Forked Repository**

* After the fork is complete, you will be redirected to the forked repository page.
* The repository is now under your workspace, and you can begin working on it independently.

# **Cloning the Forked Repository to Your PC:**

1. **Install Git (if not already installed):**

* If Git is not already installed on your PC, download and install it from <https://git-scm.com/downloads>.
* Open a terminal or Git Bash on your PC.
* Navigate to the directory where you want to clone the repository.
* Clone the repository using the following command, replacing <your-username> with your Bitbucket username, <workspace-name> with the URL of your forked repository:

git clone https://<your-username>@bitbucket.org/<workspace-name >/dblab2024.git

* You will be prompted to enter the password you generated in step 7.

# **Committing a File to the Cloned Repository:**

1. **Create a "week1" Folder and Commit the File:**

* Navigate to the root directory of your locally cloned repository using your terminal or Git Bash.
* Create a new directory named "week1" if it doesn't already exist
* Place the "MySQL\_installation\_instructions.docx" file that you want to commit into the "week1" folder.
* Add and commit the file to your repository using the following commands:

git add week1/MySQL\_installation\_instructions.docx

git config --global user.email <your\_email>

git config --global user.name <your\_username>

git commit -m "Initial commit"

# **Pushing the Changes to Bitbucket:**

1. **Push the Changes with App Password:**

* After committing the file locally, you need to push the changes to your Bitbucket repository using your App Password.
* Use the following command to push the changes and when prompted, enter your Bitbucket username and App Password:

git push origin master

1. **Verify Changes on Bitbucket:**

* Visit your Bitbucket repository page (e.g., https://bitbucket.org/\<workspace-name>/dblab2024) to verify that the file has been added under the "week1" folder.