**Git and github**

Git is a version control system that allows us to track our changes and github is a cloud based platform where we can store,share,and manage your code or projects.

With git and github we can collobarate with other developers and let others contribute to our project

Types of control systems

* Centralized
* Distributed

**Why we use version control systems**

Version control systems help developers keep a complete code history by tracking changes and supporting better collobaration to help ensure code integrity throughout the development process.s

**Django**

Django is a free open source web framework that helps developers build web applications in python.it is a popular choice for building web applications that handle large numbers of users have complex features or involve cross scripting.

Django web framework offers a shortcut to full integration with your applications.it provides CRUD functionality.

Django is a high level python web framework that enables rapid development of secure and maintainable websites.

**Django built in admin interface**

Django is the automatic admin interface.it reads metadata from your models to provide a quick,model centric interface where trusted users can manage content to your site.

Django application can use your models to automatically build a site area that you can use to create view,update,and delete records.this can save you a lot of time during development,making it very easy to test your models and get s feel for whether you have the right data.

**MVT(Model View Template)**

Mvt is a software design pattern used in django to create web applications.it is a variation of the model view controller pattern,but with unique components and flow.

Three components of mvt are

***Model***:

Defines the data structure and logic,and it is typically represented by database.in django models are python classes that correspond to database tables.

***View***:

Handles the applications logic and functionality,and processes incoming requests.in django views are python functions or classes that receive web requests and return web responses.

***Template***:

Handles the layout and structure of the user facing application.in django templates are html files with embedded python code that genetate dynamic web pages.

How to create a django project

First,create a new folder to store your django projects,such as the /opt/bitnami/projects directory,and give write permissions for the current system user

Then,initialize a new django project with the followinf command:django-admin startproject project/opt/bitnami/projects/project.