1. Django is the backend framework I would prefer to use

We can develop the web application easily with less code by consuming less time . It provides inbuilt features like

- Admin interface for managing data.
- Object relational mapper which is an abstract for database which helps us extract data easily without too many sql codes.
- Authentication for identifying users
- caching.

I had used PHP in my previous project , which requires a comparitively high amount of coding with less readily available features . So I prefer devoloping my knowledge in Django for my next project .

- 2. React is the frontend framework I would prefer to use
- It's an open source frontend javascript library
- Responsible for the view part of the web application
- It uses DOM (Document object model) . DOM is a programming interface for web documents that represent the page so that programs can change the document structre, style and content .
- It provides small piece of html code as output that is visible to the user.
- It uses JSX which is a combination of javascript and html
- 3. MySql is the databse I would prefer to use
- MySql is easy to install and setup.
- it can handle large amount of data easily.
- It uses indexing options for fast data retrieval.
- It can handle high traffic volumes.
- It is compatible with PHP, Python and java.
- It is an open source software which can be freely used.
- 4. According to my research, I would prefer using Git
- It provides the developers their own copy of the repository on their local device, which allows offline work.
- It can handle large codebases.
- It uses good data structures and algorihtms which supports branching and merging.
- 5. I would prefer using Google cloud storage
- Mainly it is cost effective. We need to just pay for the storage which we use

- It can store a huge amount (petabytes) of data easily.
- The data will be encrypted, provides multifactor authentication.
- It is durable, as the data is stored in multiple geographic locations.
- We can access data with a single API call from all storage classes We can also make use of AWS if we are using the same for deploying the web application.
- 6. I would prefer using Amazon web services for deploying my web applications.
- AWS is cost effective, we can pay only for the resources we use.
- It provides all the services like storage, database and networking services.
- It has a secured infrastructre which uses encryption and multifactor authentication.
- It has a user friendly interface and tools are easy to use. Especially for students as we don't have a lot of technical expertise
- It provides fault toleration and keeps the application running even at time of any failures either in hardwarre or any other issues .

I would use Appache server.

- Appache server is an open source software, which can be freely used.
- It can run on all operating systems (Windows, Linux, MacOs).
- It can be customized based on requirements .
- It provides security and protects websites from attacks.
- As it has a large set of users, we have many sources available for seeking help when required.