

**** Backend Architecture ****

Design & Structure of the project

* Popular architectures

1) Monolithic:-

- All components are confined into single unified code base.
- So, backend handles everything from user-management, business logic and DB interactions

Pros:

- Simple to develop & deploy
- Easier to debug

Cons:

- Messy
- Tricky scaling

2) Microservices:-

- The application is broken down into smaller independent services
- Each business function is separated and communication is done via APIs.

Pros:

- Easier scaling
- More flexible

Cons:

- harder debugging

3) Serverless:-

- no requirements for underlying infrastructure.
- Cloud providers handle server services
eg:- AWS lambda, Vercel.

Pros:-

- Easier to increase capacity for users.