Iterative Model

Planning /
Requirements → Analysis → Design → Development → Release → Testing → (loop back to Analysis)

(
Initial requirements
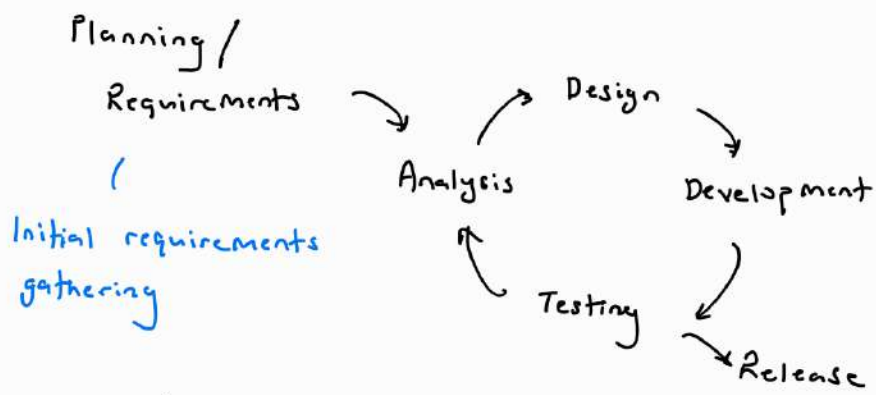gathering

- Once sufficient requirements, can begin cycle (MVP)

- Often known as incremental & iterative model

- Customer can review & provide feedback earlier
    └ more requirements can also be
       provided for next cycle.

When to use iterative model

- Startup projects / product - based companies
    (need MVP up & running)

- When all requirements not clear at beginning

- When not many resource available (Build in smaller, incremental steps)

Pros of Iterative Model

- Working software avail at earlier stage

- Early feedback on software

- Flexible requirements / scope possible

- Assist in early decision making
    └ continue with product or scrap.

Cons of Iterative Model

- requirements change in later iterations may affect earlier iterations

- more management attention required
    └ Every iteration require planning & execution

- system design issue may arise due to basic early requirements

- more cost due to changes

- unclear schedule due to changes