

## **Module-1(Fundamental)**

1). what is SDLC?

=> SDLC is a series of steps or phases provides model of development. It is a life cycle management for piece of software or application.

2). what is software testing?

=> Software testing is a process for used identify the correctness, completeness, quality of developed computer software.

3) what is agile mythology?

=> It is combination of iterative and incremental model.

=> it divides the software into small incremental builds, the build are provide in iteration, that means the big projects divided in to small iteration.

=> each iteration last about one to four weeks.

=> each iterations involves all the team members working simultaneously on area like planning req. , Analysis, design, coding, unit testing and acceptance testing.

=> at the end of the iteration the working product is displayed to the customer or the important stack holder and it is released in the market.

=> after the release we check for the feedback of deployed software.

=> if any enhancement is needed in the projects its done and its re-released.

4). write SDLC phases with basic introduction?

=>1.requiredment gathering

-customer needs

-requirement from stack holder, client, customer, ceo

-IMPROMENT in current software

Ex.- Login, login with face book or google etc.

-loading time should be less.

-add/remove to from cart

2. planning/analysis

-details of computer programming languages and environment, machines, packages, application architecture layering, memory size, algorithms, data structure, global type definition, interface and many other engineering details are established.

Ex.- risk the project

-cost if project

-time for completion.

-test plan, test tool, resources roles and responsibility, test estimation and cost, training.

### 3.design

-design architecture document.

-implementation plan.

-critical priority analysis

-performance analysis

-test plan.

Ex. -test case preparation, review test case, test data

### 4.implementation

-in the implementation phase, the builds the components either from scratch or by composition.

-implementation code,

-critical error removal

### 5.testing

-we test the build to check for defects.

- we report the defect and get it fixed.

-we re-test the build until it fulfil customer req.

Ex. -Did we get the o/p

-did the project meet customer req.

-system should run on all the condition.

-if any important is needed.

### 6.deployment.

-project live then it will become a product.

Ex. -website, mobile application-android-play store- ios-app store

## 7. maintenance

-corrective maintenance: identify and repairing defects.

-adaptive maintenance: adapting the existing solution to the new platform

-perfective maintenance: implement ting the new req.

## 5). Explain Phases of the waterfall model ?

=> requirement collection ,analysis, design, implementation, testing, maintenance.

## 6). Write phases of spiral model ?

=> planning, risk analysis, engineering, customer evaluation.

## 7). Write agile manifesto principles?

=> Every iteration involves cross functional teams working simultaneously on various areas like planning, requirements analysis, design, coding, unit testing, and acceptance testing.

## 8). Explain working methodology of agile model and also write pros and cons ?

=> pros:- frequently delivery

-face to face communication with customer

-less time

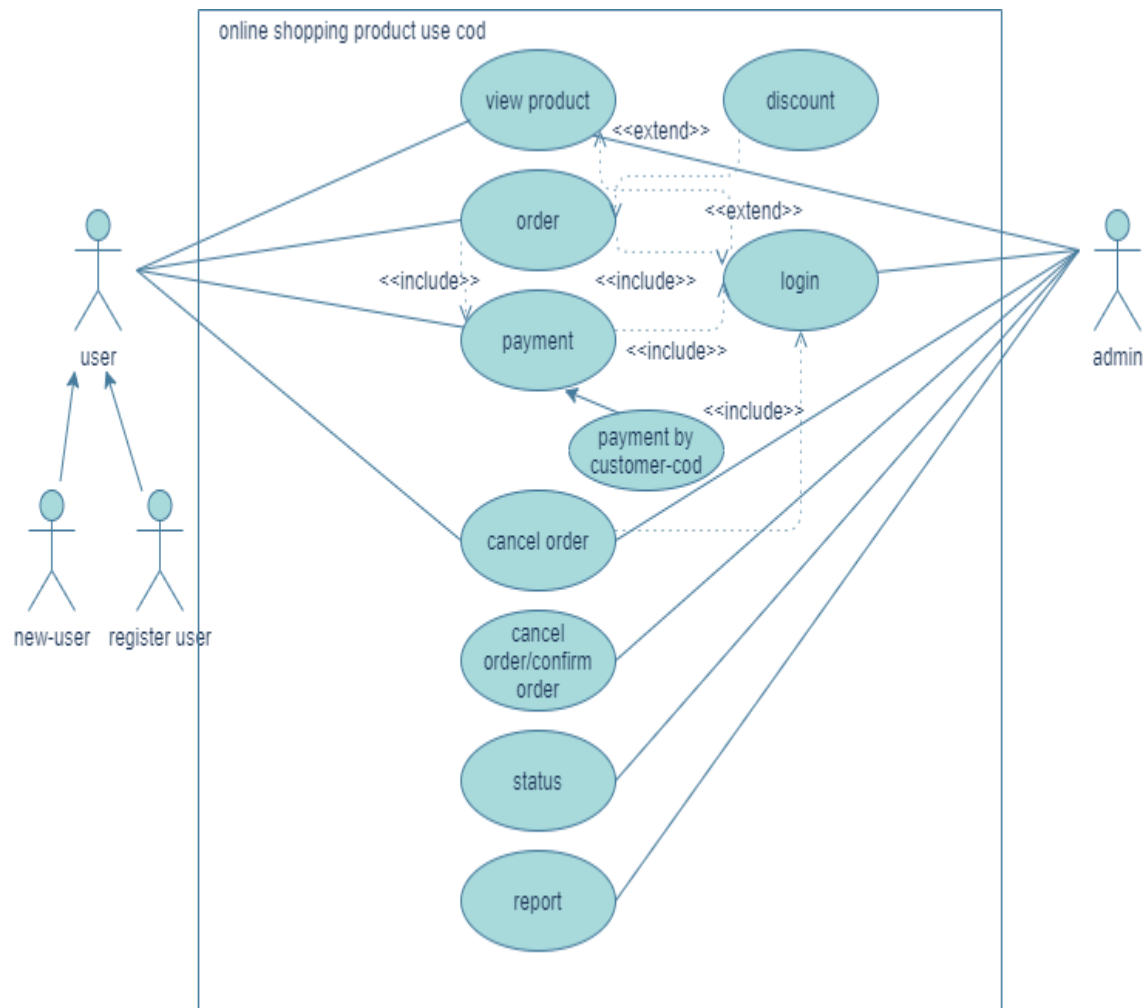
-adaptability

Cons:-less documentation

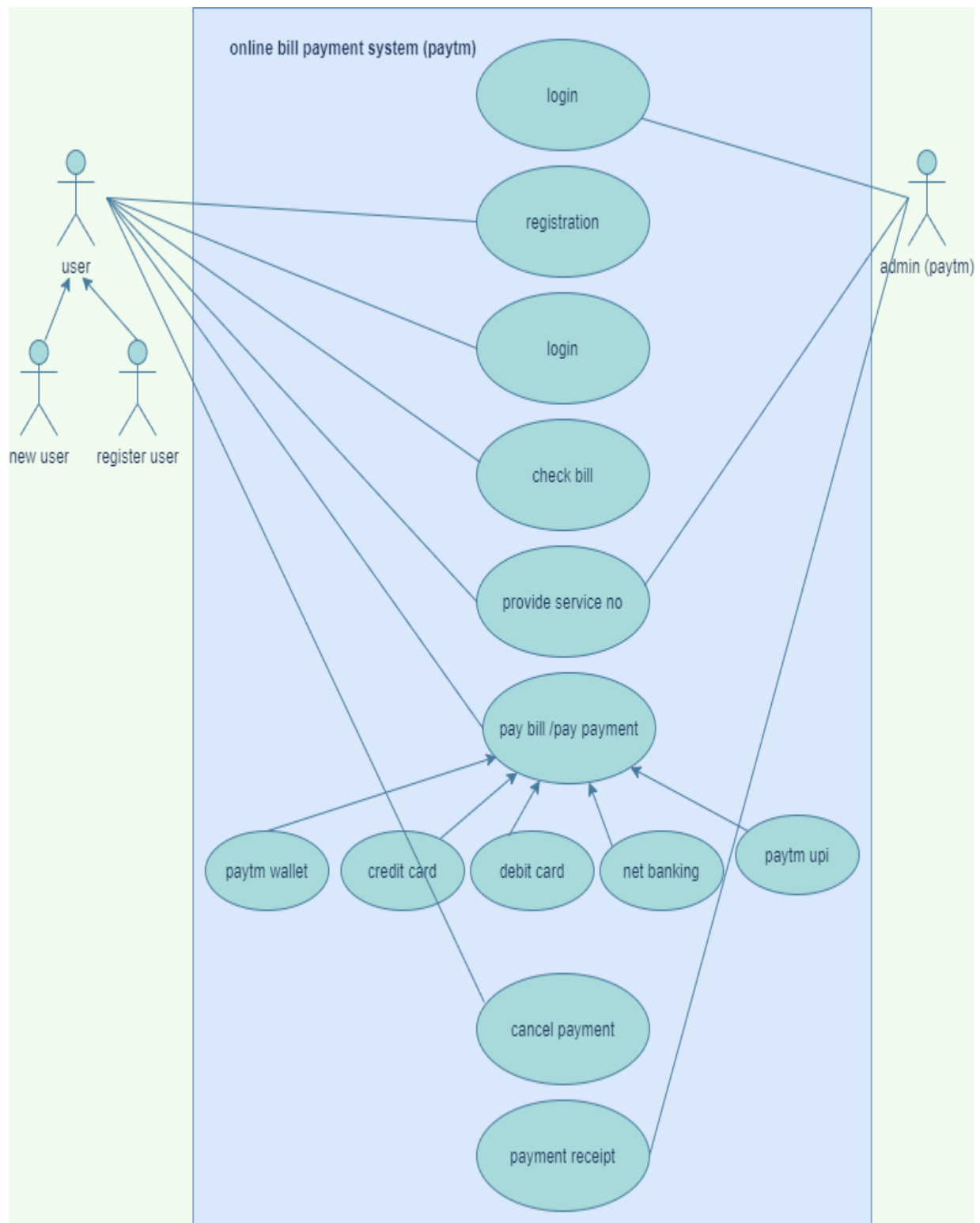
-maintenance problem

## 9). Draw Usecase on Online book shopping.





11). Draw Usecase on online bill payment system (paytm).



12). Draw usecase on Online shopping product using payment gateway.

