software testing assignment

module 1

(fundamental)

1. What is SDLC?

The fullform of SDLC is Software Development Life Cycle.SDLC is the process for planning,inplimentation,testing,documentation,deployment and ongoing maintainence and support.

2.What is software testing?

Software testing is the process for indentifing the correctness,completeness and quality of development computer software.

3.What is agile methedology?

Agile mmthedology is the a way to manage a project by breakimg it up into several phases.

4.What is SRS?

Software requirement specification is a cmplate description of the behaviour of the system to be developed.

5.What is OOPS?

Object oriented programming is a core of java programming , which is used for designing a program using classes and objects.

6.Write a basic concept of OOPS.

OOPS is an approach or a programming pattern where the programs are structured around objects rather than functions and logic.it makes the data partitioned into two memory areas.

7.What is object?

object is anything to which concept applies.

8.What is class?

A blueprint for an object is called class.

9.What is encapsulation?

Encapsulation is the practice of including in an object everything needs hidden from other objects.

10.What is inheritance?

Inheritence means that one class inherits the characterastics of other class.This is also called a " is a" relationship.

11.What is polymorphism?

The ability to change form is known as polymorphism.

12.Write SDLC phases with basic introduction.

SDLC fullform is sofware development life cycle.This is the process for planning, implimenting,testing,documentation and ongoing maintainace and support.

SDLC phases

Requirement collection: estblishing customer needs

Analysis : model and specify the

requiremnt "What"

Design : model and specify a solution

"Why"

Implementation : construct a solution is software

Testing : validate the solution against

the requirements.

Maintainance : repair defect and adopt the

solution to the new requirents

13.Explain phases of the Waterfall model.

Requirement gathering and analysis: All possible requirents for the system to be developed are captured in this phase and documented in a requiment specification document.

System design: the requirement specifications from first hase are studied in this phase and the system design is prepered. this system design helps in specifying hardware and system requirements and help in definig the overall system architecture.

Implementation: all the units deeveloped in the implementation phase are intergrated into a system after testing of each unit.post integration the entiore system is tested for any faults and failures.

Integration and teesting: all the units developed in the implementation phase are integrated into a system after testing of each unit.post integration the entire system is tested for any faults and failures.

Deployment sstem: once the functional testing is done the product is deployed in the cuteomer environment or released into the market.

Mintainance:there are some issues which come up in the client environment.to fix those issues patches are released.also to enhance the product some better versions sre realised. maintenance is done to deliver these changes in the customer environment.

14.Write phases of spiral model.

Determine objectives and find alternate solutions – This phase includes requirement gathering and analysis. Based on the requirements, objectives are defined and different alternate solutions are proposed.

Risk Analysis and resolving – In this quadrant, all the proposed solutions are analyzed and any potential risk is identified, analyzed, and resolved.

Develop and test: This phase includes the actual implementation of the different features. All the implemented features are then verified with thorough testing.

Review and planning of the next phase – In this phase, the software is evaluated by the customer. It also includes risk identification and monitoring like cost overrun or schedule slippage and after that planning of the next phase is started.

15.Write agile manifesto principles.

Customer satisfaction through early and continuous software delivery –

Customers are happier when they receive working software at regular intervals,rather thanwaitingextended periodsof time betweenreleases.

Accommodate changing requirementsthroughoutthedevelopmentprocess –

The ability to avoit delay when arequirements or features request changes.

Frequentdeliveryof working software– Scrumaccommodatesthisprinciplesince the

team operates in software sprints or iterations that ensure regular delivery of working

software.

Collaboration between thebusinessstakeholdersand developersthroughoutthe project

dcisionsaremadewhen the businessand technical teamarealigned.

Support, trust, and motivate thepeople involved Motivated teamsare more likely

todelivertheirbestwork than unhappyteams.

Working softwareistheprimarymeasureof progress

Delivering functional

softwareto
thecustomeristheultimatefactorthatmeasuresprogress.

Agile processes to support a consistent development pace

Teams establish arepeatable and maintainable speed at which they can deliver working software, and

they repeat itwitheach release.

Attentionto technical detail and designenhancesagility The rightskillsand good

design ensures the team can maintain the pace, constantly improve the product, and

sustainchange.

Simplicity– Developjustenough toget the jobdone forright now.

Self-organizing teamsencourage greatarchitectures, requirements, and designs –

Skilled and motivated teammemberswho havedecision-making power,takeownership,

communicate regularly with other team members, and share ideas that deliver quality

products.

Regularreflectionson how to becomemoreeffective –

Self-improvement, process

improvement, advancingskills, and techniques help team memberswork more effecient.

15.Explain woeking methedology of agile model and also write pros and cons.

Agile model believes that every project needs to be handled

differentlyand the existing methods need to be tailored to best suit

the project requirements. In agile the tasks are divided to time boxes to deliverspecific features fora release. Iterative approach is taken and working software build is delivered iteration. Each build is incremental in terms of features; the final build holds all the featuresrequired by the customer.

Agile thought process had started early in the software development nd started becoming popular with time due to itsflexibilityan adaptibilities.

Pros

Is a very realistic approach to software development

Promotesteamwork and crosstraining?

Functionality can be developed rapidly and demonstrated.

Resource requirements are minimum.

Suitable for fixed or changing requirements

Delivers earlypartial working solutions.

Good model for environments that change steadily.

Minimal rules, documentation easily employed.

Enables concurrent development and delivery within anoverall planned context.

Little or no planning required Easy to manage Gives flexibility to dvelopers.

Cons

Not suitable for handling complex dependencies.

More risk of sustainability, maintainability and extensibility.

An overall plan, an agile leader and agile PM practice is a must without which it will not work.

Strict delivery management dictates the scope, functionality to be delivered, and adjustments to meet the deadlines.

Depends heavily on customer interaction, so if customer is not clear, team can be driven in the wrong direction.

There is very high individual dependency, since there is minimum documentation generated.

Transfer of technology to new team members may be quite challenging due to lack of documentation use – case

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Open the app

Registration

Search the product

Check the product

Select colour size etc.

Add to cart

Continue

Add to address

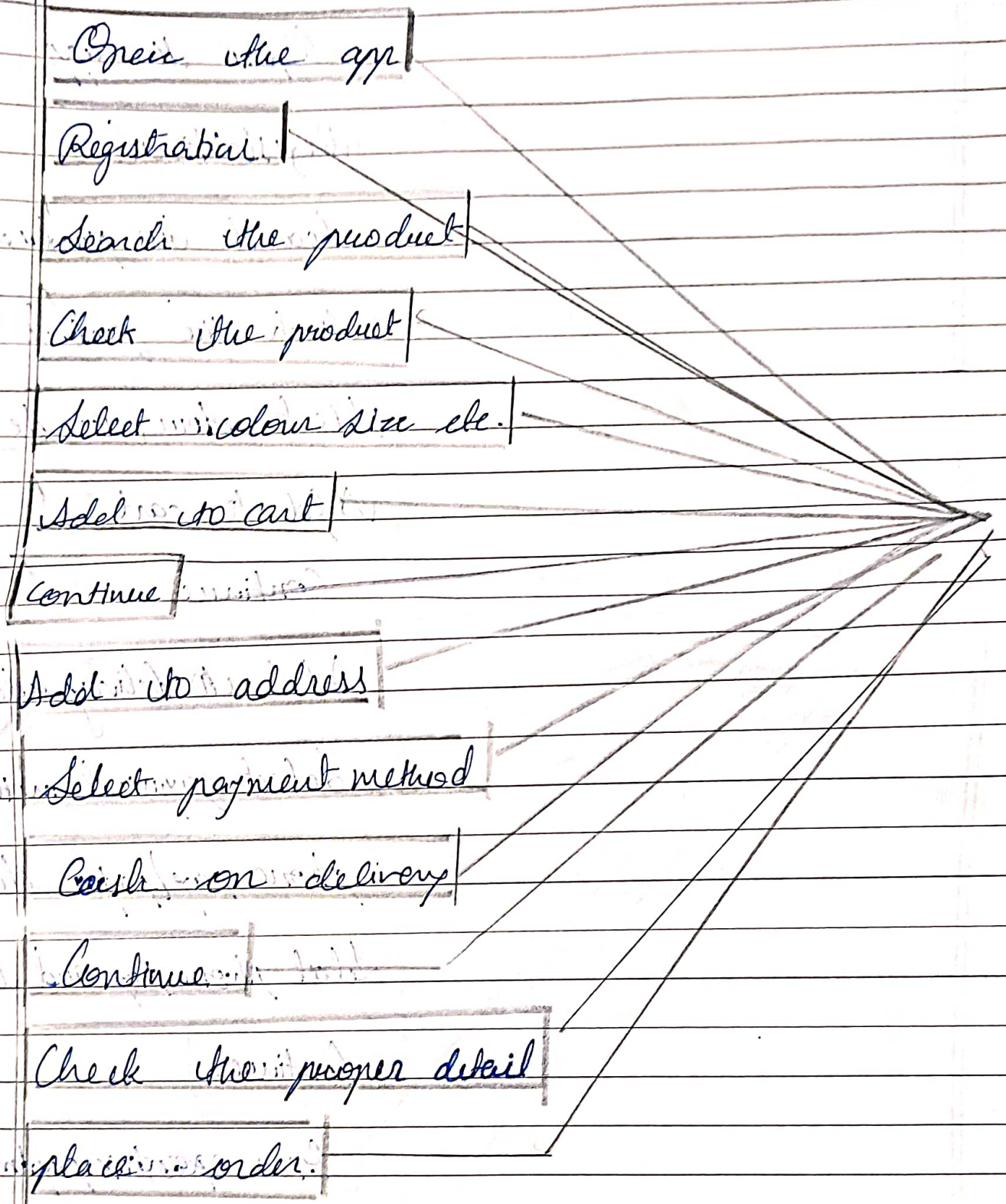
Select payment method

Cash on delivery

Continue

Check the proper detail

place order.



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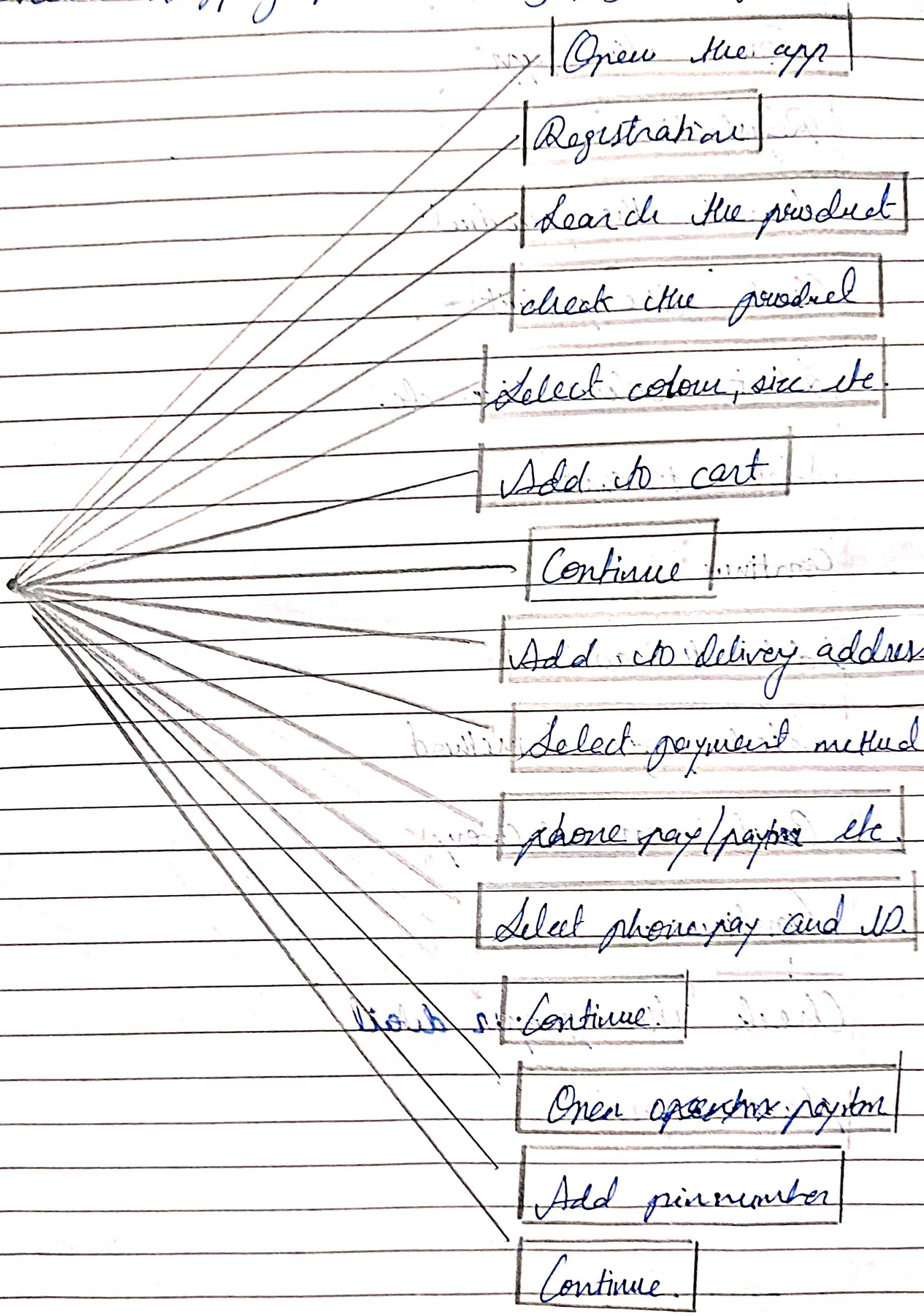

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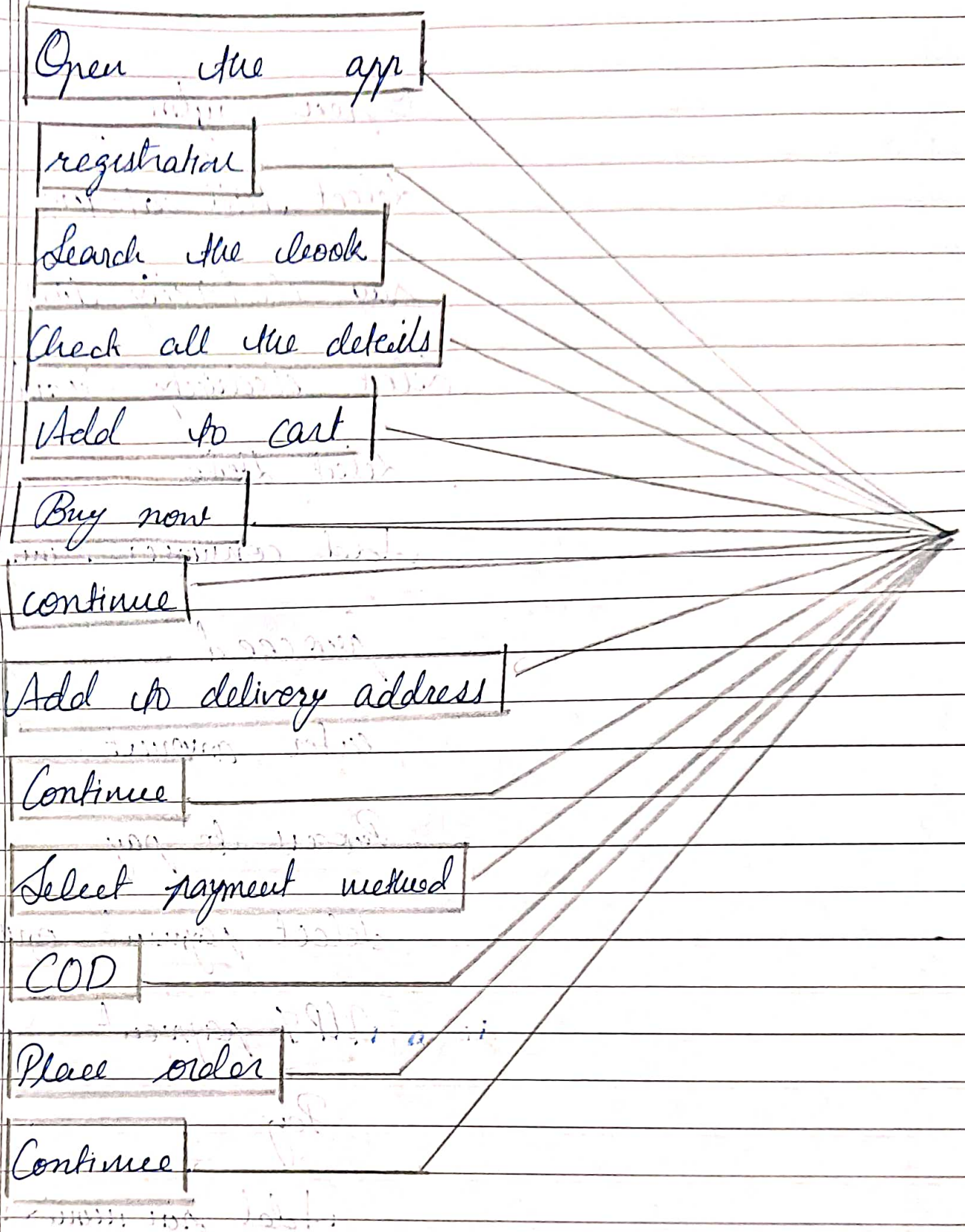

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