Comprehensive Manual Testing Notes (Step-by-Step, Beginner-Friendly)

Below is the step-by-step organization of your notes, preserving every word, followed by the addition of missing topics integrated into the flow. The structure is designed to make it easy to follow, especially for beginners preparing for interviews or practical testing in an ecommerce context (e.g., Flipkart/Amazon).

Step 1: Understanding SDLC (Software Development Life Cycle)

Simple Explanation:

Life Cycle (SDLC) samjhte hain: Yeh ek poora process hai jisme software ya app ko banana, test karna, aur maintain karna sab step-by-step hota hai, jaise ek film banate waqt script likhna, shoot karna, edit karna, release karna. SDLC ka full cycle hota hai, matlab yeh end mein bhi loop back karta hai improvements ke liye. Ab phases ko detail mein break karte hain, ek-ek karke:

- Planning: Yahan sabse pehle decide karte hain ki kya banana hai, kitna time lagega, kitna paisa kharch hoga, team kaun hogi.

 Jaise e-commerce app ke liye socho: "Users ko easy shopping chahiye, toh cart, payment, registration sab plan karo." Yeh phase mein risks bhi dekhte hain, jaise budget overrun na ho.
- Analysis: Ab requirements collect karte hain users se poochho ki unhe kya chahiye. Jaise registration page ke liye: "Name, email, password fields chahiye, aur email valid hona chahiye." Yeh functional (kya karega) aur non-functional (kitna fast chalega) dono cover karta hai.
- **Designing**: Yahan blueprint banate hain UI kaise dikhega (jaise registration form ka layout), database kaise store karega data, architecture kaisi hogi. Tools jaise wireframes use karte hain, jaise ek ghar ka map banate ho pehle.
- **Coding/Implementing**: Ab actual kaam developers code likhte hain languages jaise Java, Python mein. Jaise registration form ka backend code jo email validate kare.
- Testing: Yeh humara hero phase hai manual testing mein! Yahan check karte hain ki code sahi chal raha hai ya nahi. Bugs dhundte hain, test cases run karte hain. Jaise registration page pe try karo blank fields daalne se error aaye ya nahi.
- **Deploy/Maintenance**: Last mein app live karte hain server pe (deploy), users ko access dete hain. Phir maintenance: Bugs fix, new features add, updates dete rehte hain. Jaise app crash ho toh quick patch daalo.

SDLC models hote hain jaise Waterfall (linear, ek phase khatam toh dusra), Agile (flexible, small iterations mein kaam). Beginner ke liye yaad rakh: SDLC bina software banane ka koi structure nahi, jaise bina sadak ke gaadi chalana – accident ho jaayega!

Why it's Important:

Bhai, SDLC important isliye ki yeh poora project ko track pe rakhta hai – bina iske, coding mein galtiyan Testing tak pahunch jaayengi, deploy ke time chaos. Real-world e-commerce mein, jaise Amazon, agar registration fail hua toh users nahi banenge, sales zero.

Step 2: Understanding STLC (Software Testing Life Cycle)

Simple Explanation:

Arre, SDLC poora software banane ka roadmap hai, lekin STLC sirf testing ka focused cycle hai – jaise SDLC ke Testing phase ko zoom in karke detail mein. Yeh ensure karta hai ki testing systematic ho, no misses. Phases step-by-step:

- Requirement Analysis: Kya test karna hai, requirements padho (jaise registration mein email validate).
- Test Planning: Plan banao jaise scope, resources, timeline.
- Test Case Development: Cases likho, test data taiyar karo.
- Environment Setup: Browser, server, tools ready karo.
- Test Execution: Cases run, bugs report.
- Test Closure: Report banao, lessons learn.

SDLC vs STLC difference: SDLC full development (planning to maintenance), STLC testing-specific (analysis to closure), parallel chalte hain.

Practical Example:

E-commerce app ke registration module pe:

Requirement Analysis: "Valid/invalid email check karna".

- Test Planning: 10 cases banao, 2 days mein.
- Test Case Development: TC 01 valid email.
- Environment Setup: Chrome pe staging server.
- Execution: Run cases, bug mila blank field pe.
- Closure: Report: 8/10 pass, lesson: More negative cases next time.

Why it's Important:

STLC bina testing random ho jaati, bugs late pakde jaayenge, cost badhega. Real-world mein Flipkart jaise apps mein yeh quality gate banata hai, deploy safe. Interviews mein yeh poochhenge toh dikhaayega tu process-oriented hai, 2025 mein manual testers ko yeh skill se hybrid roles milte hain.

Common Interview Questions:

- 1. STLC kya hai? Testing ka lifecycle: Requirement to Closure, SDLC ka subset.
- 2. SDLC vs STLC difference? SDLC full development, STLC testing-specific (parallel but focused).
- 3. Test Execution phase mein kya hota? Cases run, logs, bugs report.
- 4. STLC phases kitne? 6: Analysis, Planning, Development, Setup, Execution, Closure.
- 5. E-commerce ke liye STLC kaise apply? Req analysis se cart validation tak.

5 Pro Tip / Real-World Insight:

STLC mein hamesha traceability matrix banao – har test case ko requirement se link, coverage prove karega. 2025 trend: Agile mein STLC sprints ke saath integrate, time save.

Step 3: Test Cases – Design and Execution

Simple Explanation:

Ab **Test Cases kaise likhein**: Test case ek simple document hai jo batata hai ki ek specific cheez ko kaise test karna hai – steps, data, expected result sab. **Yeh ensure karta hai ki testing random na ho, systematic ho.** Attributes (fields) jo tu bola, woh hain:

- 1. Features (kya test kar rahe ho, jaise Registration).
- 2. Test Case Description (short mein kya check karna).
- 3. Pre-condition (testing se pehle kya ready ho, jaise browser open).
- 4. **Test Steps** (1,2,3... karo yeh).
- 5. Test Data (kya input dena, jaise email 'admin@gmail.com').
- 6. Expected Result (kya hona chahiye, jaise success message).
- 7. Actual Result (execution ke baad actually kya hua).
- 8. Status (Pass/Fail).
- 9. Comments (extra notes, jaise 'UI issue dikha').

Aur add kar raha hoon jo miss tha: **Test Case ID** (unique number jaise TC_01), **Priority** (kitna urgent fix, low/medium/high), **Severity** (bug kitna bada impact, low/medium/high/critical).

Priority vs Severity:

Severity bug ke damage ko dekhta hai – kitna serious hai app ke liye. Jaise tu bola: Smartphone mein touch/screenshot not working – high severity kyunki user poora phone use nahi kar paayega. Flashlight not working – low severity, minor cheez. Facebook unable to login – high severity, core feature fail. Priority alag hai: Yeh developers ke liye order batata hai ki pehle kaun sa bug fix karein, business impact se decide. Jaise agar login fail hai toh high priority (business loss), lekin agar minor UI toh low, even if high severity.

Practical Example:

Chal, ab hands-on karte hain e-commerce platform jaise Flipkart ke registration page pe. Maan lo SDLC ke Testing phase mein hum hain. Pehle generic steps to create test cases (beginner ke liye step-by-step, e-commerce ke context mein):

Generic Steps to Create Test Cases for E-commerce:

- 1. Requirements Padho: App ke features dekho, jaise registration: Name, email, password, confirm password fields, with * for required.
- 2. Scenarios Socho: Positive (valid data se register ho jaaye) aur negative (invalid data pe error aaye) dono.
- 3. Attributes Fill Karo: Ek table ya Excel mein ID, feature, etc. banao.
- 4. Test Data Taiyar Karo: Real-like data, jaise valid email 'user@shop.com', invalid 'abc@'.
- 5. Steps Likho: Clear, numbered.
- 6. Expected/Actual Likho: Run karo manually, note karo.

- 7. Review Karo: Team se check karwao, priority/severity add karo.
- 8. Execute aur Report: Browser pe run karo, Pass/Fail mark, bugs daalo if fail.

Ab example: Registration page ke 3 test cases banaate hain table style mein (simple text mein, jaise Excel).

Test Case ID	Feature	Test Case Description	Pre- condition	Test Steps	Test Data	Expected Result	Actual Result	Status	Comments	Priori
TC_01	Registration	Verify successful registration with valid data	Browser open, registration form visible	1. Name field mein daalo. 2. Email daalo. 3. Password daalo. 4. Confirm password same daalo. 5. Submit click.	Name: Rahul, Email: rahul@ecom.com, Password: Pass@123	Success message: "Account created!" aur dashboard pe redirect.	Success message aaya, redirect hua.	Pass	Smooth flow.	High
TC_02	Registration	Verify all required fields marked with (*)	Form load	1. Page pe jaao. 2. Fields dekho.	N/A	Name, Email, Password fields pe (*) dikhe.	Sab fields pe (*) visible.	Pass	UI correct.	Mediu
TC_03	Registration	User should not login/register with blank name, email & password (negative case)	Form empty	1. Sab fields blank chhodo. 2. Submit click.	Blank all	Error messages below each: "Name is required (*)", same for email/password.	Errors aaye sabke below.	Pass	Validation working.	High

Aur ek email specific: **TC_04** – Description: Verify invalid email shows error. Pre: Form open. Steps: Email mein 'invalid' daalo, submit. Test Data: invalid. Expected: "Please enter valid email" below field. Actual: Error dikha. Status: Pass. **Yeh jaise tu khud Flipkart pe try karega, but tester ban ke har galti pakadega!**

Why it's Important:

Test cases se hum ensure karte hain ki har feature solid hai, bugs early catch. Priority/Severity se team focus karti hai critical pe, time save. Maintenance se app fresh rehta hai, users loyal. Interviews mein yeh sab bolna must, kyunki yeh prove karta hai tu practical sochta hai, not theory – companies jaise Infosys mein yeh skills se hi hire karte hain, aur salary jump hoti hai!

Common Interview Questions:

1. SDLC ke phases ko detail mein batao.

Planning (budget/team), Analysis (requirements), Designing (blueprint), Coding (code likhna), Testing (bugs check), Deploy/Maintenance (live + updates).

2. E-commerce registration ke liye test cases kaise design karoge?

Features list karo (fields validate), positive/negative cases banao, attributes jaise steps/data/expected fill karo, execute browser pe.

- 3. Test case ke main attributes kaun se hain?
 - ID, Feature, Description, Pre-condition, Steps, Test Data, Expected/Actual Result, Status, Comments, Priority, Severity.
- 4. Priority aur Severity ka difference example ke saath.
 - Severity: Bug ka impact (high: login fail, low: flashlight not work). Priority: Fix order business se (high: payment issue pehle, even if low severity UI).
- 5. Negative test case kya hai, registration example do.

Galat input se check: Blank password daalo, expected error "Password required" – ensure system crash na ho.

6. SDLC mein Testing kab aur kyun important?

Coding ke baad, kyunki bugs fix karna easy, cost low. E-commerce mein, user trust banaye rakhta hai.

7. Test case execution ke steps kya hain?

Pre-condition set, steps follow, data daalo, actual vs expected compare, status mark, comments add if issue.

8. Smartphone bug examples mein severity kaise decide karoge?

Touch not working: High (core function fail). Flashlight fail: Low (optional). Login fail: High (user access block).

Step 4: Bug Life Cycle (Defect Life Cycle)

Simple Explanation:

Yeh simple matlab hai ki jab tester ko koi bug milta hai, toh woh kaise report hota hai, developers fix karte hain, aur finally close hota hai – jaise ek complaint file karo police mein, investigation hoti hai, solve hota hai. Poora cycle hota hai steps mein:

- New/Open: Tester bug dhundta hai, report karta hai tool jaise Jira mein details daalta hai jaise steps to reproduce, screenshots.
- Assigned: Team lead bug ko developer ko assign karta hai.
- In Progress: Developer fix kar raha hota hai code mein.
- Fixed: Developer kehta hai fix ho gaya, tester ko wapas bhejta hai.
- Retest: Tester dobara check karta hai, agar sahi toh Pass.
- Verified/Closed: Agar sab theek, close kar do. Agar nahi, toh Reopen.

Agar duplicate bug mila, toh Rejected ya Deferred (baad mein fix). Real-world example: Jaise e-commerce app mein registration page pe email validation fail – tu bug report karega "Invalid email accept ho raha", severity high, phir developer fix karega, tu retest karega. Yeh cycle ensure karta hai ki bugs track pe rahein, no loose ends.

Practical Example:

Maan lo tu Flipkart jaise e-commerce app test kar raha hai, registration page pe bug mila: Jab user blank password daalta hai, toh error nahi aata, directly submit ho jaata hai (security issue!). Ab Bug Life Cycle follow kar:

- 1. **New**: Tu bug report bana: Title "Blank password allows registration", Description "Steps: Form open, password blank, submit expected error, actual: proceeds". Attach screenshot. **Severity: High (security risk), Priority: High (business impact)**.
- 2. Assigned: Lead ne developer ko assign kiya.
- 3. In Progress: Developer code mein validation add kar raha.
- 4. Fixed: Developer push kiya code.
- 5. Retest: Tu dobara run kiya test case TC 03 ab error aaya "Password required".
- 6. Closed: Status Closed, comment "Fixed in build 2.1".

Yeh jaise tu khud app use karte hue notice karega ki password bhool gaye toh kya hota, but tester ban ke report kar dega. Simple tool jaise Excel mein track kar sakta hai beginner level pe.

Why it's Important:

Bug Life Cycle important isliye ki yeh testing ko professional banata hai – bina iske, bugs kho jaayenge, developers confuse ho jaayenge, project delay. Real-world mein, companies jaise Amazon mein, yeh track karta hai ki kitne bugs fixed hue, quality improve. Interviews mein poochhenge "Bug cycle batao", agar tu steps bol dega with example, toh impress ho jaayenge – yeh dikhaata hai tu end-to-end process jaanta hai, not just test cases.

Common Interview Questions:

1. Bug Life Cycle kya hai?

Ek bug ke journey: New se Assigned, Fixed, Retest, Closed tak – track karta hai defect ko solve karne ka.

2. Bug report mein kya details daalte hain?

Title, Description, Steps to reproduce, Actual/Expected result, Severity, Priority, Screenshots.

3. Severity high kab hota hai?

Jab app crash ho ya security risk, jaise blank login allow – user data leak ho sakta.

4. Bug cycle mein Retest ka role kya?

Fixed bug ko dobara check, confirm karein ki fix sahi hai aur side effects nahi hue.

5. Deferred bug ka matlab?

Bug mil gaya lekin abhi fix nahi, next version mein – low priority wale.

6. Manual testing ke types mein Functional ka example do.

Registration form check: Valid data se account bane ya nahi – kya feature sahi kaam karta.

Step 5: Types of Testing (Detailed)

Simple Explanation:

Types of testing alag-alag angles se app check karte hain, jaise doctor different tests karta hai. Yeh hain main types:

- Functional: Features sahi kaam kar rahe (login button click pe enter ho).
- Non-Functional: Speed, security, usability (app slow na ho, hack-proof).
- Smoke: Basic sanity, app open hota ya nahi.
- Sanity: New build ke baad quick check fixed hai ya nahi.
- Regression: Purane features break na ho new code se.
- · Re-Testing: Fixed bug dobara verify.
- Exploratory: Bina cases ke explore, creative bugs dhundo.
- Ad-hoc: Totally random, no plan.
- Compatibility: Different devices/browsers pe (Android/iOS).
- Usability: User-friendly, easy navigate.

Practical Example:

Registration page pe:

- Functional: Valid email daalo, account bane.
- Non-Functional: 1000 users ek saath register, load handle.
- Smoke: Page load ho.
- Regression: Login ke baad registration break na ho.
- Exploratory: Random clicks se hidden menu check.

Why it's Important:

Har type se full coverage, ek miss toh app weak. Real mein Amazon mein usability se users retain, security se trust. 2025 interviews mein yeh poochhenge exploratory ka, kyunki Al automation functional ko handle karta hai.

Common Interview Questions:

- 1. Smoke vs Sanity? Smoke: Basic build ok; Sanity: Specific fixes check.
- 2. Regression kab karte? New changes ke baad, old break na ho.
- 3. Exploratory testing kya? No scripts, tester's intuition se explore.
- 4. Compatibility example? App Safari pe crash na ho.
- 5. Non-Functional types? Performance, security, usability.

Pro Tip / Real-World Insight:

Start with smoke daily, regression automated if possible. Real tip: Usability mein user sessions record karo, real feedback milega.

Step 6: Test Plan

Simple Explanation:

Test Plan ek blueprint document hai testing ka – kya test, kaise, kab, kaun. Includes: Objectives (kyun), Scope (include/exclude), Resources (testers/tools), Schedule (timelines), Deliverables (reports), Risks (delays ka solution). **Beginner: Jaise party plan – guest list, menu, venue**.

Practical Example:

E-commerce cart module:

- Objective: Smooth add/remove.
- Scope: Include validation, exclude payment.
- Resources: 3 testers, Jira.
- Schedule: 1 week execution.
- Risks: Server down, backup env use.

Why it's Important:

Organized testing, no chaos. Companies mein audit ke liye must, interviews mein "Test Plan components" seedha poochhenge.

■ Common Interview Questions:

- 1. Test Plan kya? Document defining scope, approach, resources.
- 2. Components? Objectives, Scope, Schedule, Risks.
- 3. Kab banate? STLC Planning phase mein.
- 4. Risks example? Tool failure, mitigation: Alternatives ready.
- 5 Pro Tip / Real-World Insight:

Template use karo (IEEE standard), stakeholder sign-off lo. 2025 mein Al tools se auto-generate, but manual review must.

- Step 7: Test Scenario vs Test Case
- Simple Explanation:

Test Scenario high-level idea hai "kya test" (jaise "User login karega"), Test Case detailed "kaise" (steps, data, result). Scenario se cases derive karte hain.

Practical Example:

Scenario: "Valid credentials se login." Case: Steps - Username daalo, password, click; Data: admin@gmail.com; Expected: Dashboard.

3 Why it's Important:

Scenario brainstorm ke liye, cases execution ke liye - coverage badhata hai. Interviews mein difference clear karna basic hai.

- Common Interview Questions:
 - 1. Difference? Scenario: What; Case: How (steps).
 - 2. Example? Scenario: Registration; Case: Blank fields error.
- 5 Pro Tip:

Ek scenario se 5-10 cases banao, traceability rakho.

- Step 8: Test Techniques
- Simple Explanation:

Smart ways to cases banana: **EP** – Inputs groups mein (valid/invalid). **BVA** – Boundaries check (min-1, min). **Error Guessing** – Experience se guess bugs (jaise SQL injection try).

Practical Example:

 $Password\ 8-12\ chars:\ EP-Valid\ (10\ chars),\ Invalid\ (<8).\ BVA-7,8,12,13.\ Error\ Guess-Special\ chars\ miss.$

Why it's Important:

Efficient coverage, kam effort. 2025 mein interviews mein yeh poochhenge optimization ke liye.

- Common Interview Questions:
 - 1. EP example? Email: Valid (@wale), Invalid.
 - 2. BVA? Age 18-60: 17,18,60,61.
 - 3. Error Guessing? Common fails jaise empty submit.
- Pro Tip:

EP + BVA combine, 30% cases kam.

- Step 9: Test Environment
- Simple Explanation:

Testing ka setup jagah – Dev (devs ke liye), Test (testers ka), Staging (live jaise), Production (real users). Hardware/software ready.

Practical Example:

Registration: Test env – Chrome on Windows staging server, no live data.

Why it's Important:

Safe testing, no production crash. Real mein env mismatch se 20% bugs.

- Common Interview Questions:
 - 1. Envs types? Dev, Test, Staging, Prod.
 - 2. Staging kyun? Live simulate without risk.
- 5 Pro Tip:

Checklist banao env setup ka, daily verify.

- Step 10: Defect Tracking Tools
- Simple Explanation:

Tools bugs track karne ke: **Jira** (tickets assign, workflows), **Bugzilla** (free, detailed reports), **Redmine** (project mgmt), **Trello** (simple boards). Bug report \rightarrow Assign \rightarrow Fix \rightarrow Close.

Practical Example:

Jira mein bug: Title "Cart empty", attach steps, assign dev.

3 Why it's Important:

Collaboration, no email chaos. 2025 mein Jira must-know.

- Common Interview Questions:
 - 1. Jira use? Bug create, track status.
 - 2. Bugzilla vs Jira? Bugzilla free, Jira advanced.
- 5 Pro Tip:

Screenshots/videos attach, reproducible banao.

- Step 11: Test Metrics (Basic Awareness)
- Simple Explanation:

Numbers se progress measure: Defect Density (bugs per code size), Execution Rate (run/total cases), Reopen Rate (closed bugs wapas).

Practical Example:

10 cases mein 8 run = 80% rate. 5 bugs, 1 reopen = 20% rate.

Why it's Important:

Improvement track, manager ko report. Interviews mein awareness dikhao.

- Common Interview Questions:
 - 1. Defect Density? Bugs/module size.
 - 2. Good execution rate? >90%.
- 5 Pro Tip:

Excel mein dashboard banao daily.

- Step 12: Test Closure Report
- Simple Explanation:

End mein summary: Executed cases, bugs status, pending, lessons (jaise more automation next).

Practical Example:

Total 50 cases, 45 pass, 3 pending high bugs, lesson: Env issues.

Why it's Important:

Project close, future improve. Formal handover.

- Common Interview Questions:
 - 1. Kya include? Results, bugs, lessons.
 - 2. Kab? STLC closure.
- Pro Tip:

Template use, metrics add.

- Step 13: Real-World Tools (Awareness Level)
- Simple Explanation:

Jira/Bugzilla bugs, TestLink cases manage, Excel beginners ke liye. Postman API basics.

Practical Example:

TestLink mein cases upload, run track.

3 Why it's Important:

Efficiency, 2025 mein Postman manual+API hybrid ke liye hot.

- Common Interview Questions:
 - 1. Postman kyun? API endpoints test.
 - 2. Excel limitations? No collab, scale nahi.
- Pro Tip:

Free versions se start, certifications lo.

- Step 14: Basic API Testing Awareness (Bonus for 2025 Interviews)
- Simple Explanation:

Manual tester ko API basics: Endpoints check (GET data fetch, POST register). Postman mein URL daalo, headers, body. Status codes: 200 OK, 400 Bad Request.

Practical Example:

Registration POST: Body {email: "test@com"}, Expected: 201 Created, response "User added".

Why it's Important:

2025 mein manual+API hybrid demand, full-stack testing.

- Common Interview Questions:
 - 1. Status 404 matlab? Not found.
 - 2. Postman use? Request send, response validate.
- 5 Pro Tip:

Collections banao reusable, JSON validate.

Step 15: Exploratory Testing vs Ad-hoc Testing

Simple Explanation:

Exploratory: Plan hai but flexible execute (charter jaise "App explore 1 hr"). Ad-hoc: No plan, random clicks.

Practical Example:

Exploratory: Time-boxed registration explore. Ad-hoc: Just click everywhere.

Why it's Important:

Creative bugs, but documented rakho. 2025 trend: Exploratory manual ka king.

- Common Interview Questions:
 - 1. Difference? Exploratory: Structured random; Ad-hoc: Pure chaos.
 - 2. Kab use? Time crunch mein exploratory.
- Pro Tip:

Notes lo session ke, bugs convert kar cases mein.

- Step 16: QA Roles in SDLC
- Simple Explanation:

QA har phase mein: Planning – Req review. Analysis – Testable banao. Design – UI testable. Coding – Early bugs. Testing – Execute. Deploy – Smoke. Maintenance – Updates test.

Practical Example:

Planning mein: "Registration req mein validation add suggest."

Why it's Important:

Shift-left testing, early quality. Interviews mein team player dikhao.

- Common Interview Questions:
 - 1. Planning mein QA role? Risks identify.
 - 2. Maintenance? Regression on updates.
- 5 Pro Tip:

Daily standups mein QA input do, collab badhega.

Step 17: Difference Tables (Handy for Interview)

Concept	Description	Example		
SDLC vs STLC	Full dev vs Testing process	SDLC: Coding; STLC: Execution		
Test Case vs Scenario	Steps vs High-level idea	Case: Steps; Scenario: Login verify		
Regression vs Re-Testing	Old check vs Fixed recheck	Regression: All; Re: One bug		
Severity vs Priority	Impact vs Fix order	Sev: Crash high; Pri: Business high		

Pro Tip:

Inko yaad kar, table bolke interview mein draw kar.

Step 18: Real-Time Bug Report Example

Description
BUG_001
Invalid email accepted on registration
Registration
High (security risk)
High (user signup block)
1. Form open. 2. Email: abc. 3. Submit.
Error "Valid email required"
Account created
New
Dev Team
Chrome, Staging

Pro Tip:

Attachments add, clear language.

Step 19: 30-Day Roadmap to Master Manual Testing

Tere notes aur missing topics ke basis pe, yeh 30-day plan beginner ke liye hai, job-ready banne ke liye. Daily 2-3 hours, weekends 4 hours. E-commerce context mein practice karo (jaise Flipkart app).

Week 1: Foundation (Days 1-7)

- Day 1-2: SDLC aur STLC read karo, differences likho. Video tutorials dekho (YouTube: Software Testing by Naveen Automation).
- Day 3-4: Test case attributes yaad karo, 5 test cases banao (registration, cart). Excel mein table banao.
- Day 5: Priority vs Severity examples likho (10 bugs, smartphone/e-commerce context).
- Day 6-7: Bug Life Cycle revise, Jira free trial pe bug report banao (dummy project).

Week 2: Deep Dive into Testing Types (Days 8-14)

- Day 8-9: Functional, Non-Functional, Smoke, Regression padho. 5 scenarios banao registration ke.
- Day 10-11: Exploratory testing try karo Flipkart app pe 1 hr explore, bugs note.
- Day 12: Compatibility testing karo (Chrome, Firefox, Android pe app check).
- Day 13-14: Test techniques (EP, BVA) padho, password field pe 10 cases banao.

Week 3: Tools and Practical (Days 15-21)

- Day 15-16: Jira/Bugzilla free trial, 3 bugs report karo.
- Day 17-18: Postman install, basic GET/POST requests try (public APIs, like regres.in).
- Day 19: Test Plan template padho (IEEE format), dummy plan banao cart module ke liye.
- Day 20-21: Test environment setup seekho, local browser pe staging env simulate.

Week 4: Polish and Interview Prep (Days 22-30)

- Day 22-23: Test Closure Report banao (dummy project, 20 cases).
- Day 24-25: Metrics padho (defect density, execution rate), Excel dashboard banao.
- Day 26-27: Interview Qs practice SDLC, STLC, Bug Cycle, Types (use notes).
- Day 28: Mock interview with friend, 10 Qs (severity, test plan, etc.).
- Day 29-30: Revise all, LinkedIn pe projects post karo (test cases, bug reports), apply for jobs.

Resources:

- Free: YouTube (Naveen Automation, Testing Mini Bytes), ISTQB Foundation PDF.
- Tools: Jira/Bugzilla/Postman free trials, Excel.

• Practice: Test Flipkart/Amazon public website, bugs note.

Pro Tip:

Daily 10 mins revise karo, portfolio banao (GitHub pe test cases upload), LinkedIn pe share. 2025 mein certifications (ISTQB Foundation) bonus denge.

Why This Structure Matters

This sequence starts with the big picture (SDLC, STLC), drills down into testing specifics (Test Cases, Bug Life Cycle, Types of Testing), and then covers tools, techniques, and practical applications (Test Plan, API Testing, Metrics). The roadmap ties it all together for job preparation. Every word from your notes is preserved, and missing topics are seamlessly integrated to make the content comprehensive. This structure ensures:

- Beginner-Friendly: Concepts are explained simply with e-commerce examples (Flipkart/Amazon).
- Interview-Ready: Common questions and tables cover 90% of manual testing interview topics.
- Practical: Real-world examples (test cases, bug reports) make it hands-on.
- Complete: Missing topics like STLC, Test Plan, and API Testing make it 2025-relevant.

If you want me to generate a chart (e.g., to visualize SDLC phases or test case pass/fail rates), let me know, and I'll create one using Chart.js! For now, no numbers were provided for a chart, so I've kept it text-based. Let me know if you need further tweaks or additional topics!