

# Chapter 7: How to Know It Actually Works

"You're not writing tests. You're being thorough."

## The Reality

Al built your app. It works on your computer. But how do you know it'll work for everyone else?

You don't need unit tests or test-driven development. You need to be systematic about checking if things work before real users find the problems.

**This chapter teaches you:** How to catch obvious issues before launch, and build confidence that your app is ready.

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## The Three Testing Phases

### Phase 1: Before You Deploy

Test locally. Catch the obvious stuff.

### Phase 2: After You Deploy (Before Telling Anyone)

Test live. Make sure deployment didn't break anything.

### Phase 3: When You Add Features

Test the new thing and make sure you didn't break the old things.

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## Phase 1: Before You Deploy

### The Happy Path Test

**What it is:** Use your app exactly as you expect users to use it.

**For the bookmark app:**

1. Sign up with email/password
2. Add a bookmark
3. See it in your list
4. Search for it
5. Delete it
6. Log out

**Do this 3 times.** If something breaks on attempt 2 or 3, you found a bug.

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### The "What If I'm Dumb?" Test

**What it is:** Try to break things like a confused user would.

**Try these:**

- Leave fields empty, hit submit
- Type weird stuff ( `<script>` , emoji, super long text)

- Click submit 10 times rapidly
- Hit back button randomly
- Refresh mid-action

**Look for:**

- Helpful error messages (not "Error 500")
  - App doesn't crash
  - Can't get "stuck" in a broken state
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## The Device Test

**What it is:** Test on different devices and screen sizes.

**Minimum tests:**

- Your phone (small screen)
- Your computer (large screen)
- Try both portrait and landscape on phone

**Check:**

- Can you see all the buttons?
  - Can you tap/click everything?
  - Does text overflow weirdly?
  - Are forms usable on mobile?
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## The Browser Test

**What it is:** Test in multiple browsers.

**Test these:**

- Chrome (most users)
- Safari (iPhone users)
- Firefox (privacy-conscious users)

**Open incognito/private mode** each time (clears cache and cookies).

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## The Slow Internet Test

**What it is:** See what happens when things take time.

**How:**

- Chrome DevTools → Network tab → Throttle to "Slow 3G"
- Do your happy path test again

**Check:**

- Do you see loading states?
  - Does anything feel "broken" because it's slow?
  - Are there helpful messages while waiting?
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## Phase 2: After You Deploy

You deployed to Vercel/Netlify. Before you tell anyone:

### The Deployment Check

**Visit your live URL. Test again:**

- Sign up with a NEW email (test email sending)
- Do the happy path test
- Try a few "dumb user" tests

**Why this matters:** Environment variables might be wrong. Database might not be connected. Email might not send. Things that work locally can fail in production.

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### The Fresh Eyes Test

**Ask 1-2 friends** to try it. Don't tell them how to use it.

**Watch them:**

- Where do they get confused?
- What do they click that doesn't work?
- What do they expect that isn't there?

**Take notes.** Users will try things you never imagined.

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### The Real Device Test

**Test on actual devices**, not just Chrome's device simulator:

- Your phone
- Friend's Android phone (if you have iPhone)
- Tablet if you have one

**Simulators lie.** Real devices show real problems.

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## Phase 3: When You Add Features

Every time you add something new:

### The New Feature Test

1. **Test the new feature** thoroughly
2. **Test the old features** to make sure you didn't break them

**Example:** You added "export bookmarks to CSV"

**Test the new thing:**

- Export with 1 bookmark
- Export with 100 bookmarks
- Export with 0 bookmarks
- Does the file download?

- Can you open it in Excel/Google Sheets?

#### Test the old things:

- Can you still add bookmarks?
- Can you still delete bookmarks?
- Does search still work?

AI makes changes across multiple files. It might break something you didn't expect.

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## Common Problems You'll Catch

### Forms That Don't Validate

- Submit empty fields
- Paste 10,000 characters in a field
- Use special characters

### Broken Navigation

- Click back button
- Type URL directly
- Try to access pages you shouldn't

### State Management Issues

- Do the same action twice
- Refresh in the middle of something
- Open app in two tabs

### Mobile Issues

- Buttons too small to tap
- Text overlaps
- Keyboard covers input fields
- Can't scroll properly

### Loading State Problems

- No indication something is happening
  - Looks broken when it's just slow
  - Can click buttons while loading (creates duplicates)
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## Tools That Help

### Chrome DevTools (Free)

**Console tab:** Shows errors in red. Copy them, paste to AI, say "fix this"

**Network tab:** Shows what requests are happening. Useful for seeing if API calls fail

**Device simulation:** Test different screen sizes without multiple devices

**How to open:** Right click anywhere → "Inspect"

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## Actual Phones

**Nothing beats real devices.** Test on actual phones. Borrow friends' phones if needed.

**iOS vs Android:** They behave differently. Test both if possible.

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## When to Stop Testing

**You'll never catch everything.** Real users will always find something.

**Ship when:**

- Happy path works reliably
- Major "dumb user" scenarios don't crash
- Works on your phone and computer
- 1-2 friends tested it successfully

**Don't wait for:**

- Every possible edge case
- Perfect mobile experience
- Zero bugs

**Perfect is the enemy of shipped.**

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## What Happens When Users Find Bugs

They will. Here's how to handle it:

### 1. Thank Them

"Thanks for reporting this! I'm looking into it."

### 2. Reproduce It

Ask them exactly what they did. Try to make it happen on your end.

### 3. Fix It

Copy the error, paste to AI, describe what happened, let AI fix it.

### 4. Deploy the Fix

Push to GitHub, Vercel auto-deploys. Usually live in 2-3 minutes.

### 5. Tell Them It's Fixed

"Just deployed a fix, should work now. Let me know if you still see issues!"

**Users respect builders who fix things fast** more than builders who ship perfect products late.

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## The Testing Mindset

## You're Not Writing Tests

You're **clicking around systematically** to catch obvious problems.

## You're Not Paranoid

You're **thorough**. There's a difference.

## You're Not Trying to Be Perfect

You're trying to **ship with confidence**.

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## Checklist for Every App You Build

Print this. Keep it by your computer.

### Before Deploy:

- Happy path works (3 times)
- Empty form fields handled
- Works on my phone
- Works in Chrome, Safari, Firefox
- Tested with slow internet

### After Deploy:

- Works at live URL
- New signup works (email sends)
- 1-2 friends tested it
- Tested on real phone

### Adding Features:

- New feature works
  - Old features still work
  - Tested on phone
  - Deployed and checked live
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## The Reality Check

Your first app will have **bugs**. So will your tenth app. Professional developers ship bugs all the time.

**The difference:** You caught the obvious ones. You tested systematically. You're confident the main flows work.

### That's enough to ship.

Testing isn't about perfection. It's about **catching the stuff that would embarrass you** before users see it.

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## Next Steps

- Build your next feature
- Test it with this checklist
- Ship it
- Fix bugs as users report them
- Learn what breaks and why

**The more you build, the better you get at knowing what to test.**

This is learned through doing, not through reading. Go test something.

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