MODULE 3

BUILDING YOUR TOOL

From Idea to Working MVP

"The way to get started is to quit talking and begin doing."

- Walt Disney

Student Name: _____

Tool Name: _____

Build Start Date: _____

Target Launch Date: _____

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Module Progress Checklist

- [ ] Lesson 1: Tech Stack Selection
- [ ] Lesson 2: MVP Architecture Planning
- [ ] Lesson 3: Building Core Features
- [ ] Lesson 4: UI/UX Best Practices
- [ ] Lesson 5: Testing & Bug Fixing
- [ ] Lesson 6: Launch Day Preparation

🚀 QUICK WIN GENERATOR

Start building momentum TODAY:

Next 60 Minutes: Set up your development environment and push your first "Hello World" commit to GitHub.

- [ ] Environment ready and first commit done!

Pre-Build Assessment

My technical confidence level (1-10): _____
Hours per day I can dedicate to building: _____
My biggest technical challenge will be:

Tech Stack Decision Tree

FRONTEND SELECTION

Option A: Simple Stack

- [ ] HTML/CSS/Vanilla JS
- [ ] Bootstrap/Tailwind
- [ ] jQuery (if needed)

✓ Best for: Conversion tools, calculators

Option B: Modern Stack

- [ ] React/Vue/Svelte
- [ ] Next.js/Nuxt
- [ ] TypeScript

✓ Best for: Complex interactions, dashboards

BACKEND SELECTION

Option A: Serverless

- [ ] Vercel/Netlify Functions
- [ ] Supabase/Firebase
- [ ] AWS Lambda

✓ Best for: Low maintenance, scale automatically

Option B: Traditional

- [ ] Node.js/Express
- [ ] Python/Django
- [ ] Ruby on Rails

✓ Best for: Complex logic, full control

MY FINAL STACK DECISION

COMPONENT	TECHNOLOGY CHOICE	WHY
Frontend Framework		
Backend/API		
Database		
Hosting		
Payment Processing		

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MVP Feature Checklist

CORE FEATURES (MUST HAVE FOR LAUNCH)

- [ ] **Feature 1:** _____

  Estimated time: _____ hours | Actual: _____ hours

- [ ] **Feature 2:** _____

  Estimated time: _____ hours | Actual: _____ hours

- [ ] **Feature 3:** _____

  Estimated time: _____ hours | Actual: _____ hours

- [ ] **Feature 4:** _____

  Estimated time: _____ hours | Actual: _____ hours

- [ ] **Feature 5:** _____

  Estimated time: _____ hours | Actual: _____ hours

INFRASTRUCTURE REQUIREMENTS

- [ ] User authentication system
- [ ] Database schema designed
- [ ] Payment integration
- [ ] Email notifications
- [ ] Basic analytics tracking
- [ ] Error handling & logging
- [ ] Basic security measures

NICE-TO-HAVE FEATURES (POST-LAUNCH)

1. _____
2. _____
3. _____
4. _____
5. _____

> 💡 PRO TIP
> If a feature takes more than 8 hours to build, it's not an MVP feature. Save it for v2!

14-Day Development Sprint

Day 1-2	Day 3-5	Day 6-8	Day 9-11	Day 12-14
Setup	Backend	Frontend	Integration	Testing

WEEK 1: FOUNDATION

DAY	TASK	COMPLETED	NOTES
Day 1	Set up dev environment, GitHub repo	☐	
Day 2	Database design, initial schema	☐	
Day 3	Authentication system	☐	
Day 4	Core backend logic (Feature 1)	☐	
Day 5	Core backend logic (Feature 2)	☐	
Day 6	Frontend setup, routing	☐	
Day 7	Main UI components	☐	

WEEK 2: INTEGRATION & POLISH

DAY	TASK	COMPLETED	NOTES
Day 8	Frontend forms, user flows	☐	
Day 9	Connect frontend to backend	☐	
Day 10	Payment integration	☐	
Day 11	Email notifications	☐	
Day 12	Testing & bug fixes	☐	
Day 13	Performance optimization	☐	

DAY	TASK	COMPLETED	NOTES
Day 14	Final testing, deployment prep	☐	

UI/UX Sketching Templates

HOMEPAGE WIREFRAME

[Sketch your homepage layout here]

Include: Header, Hero, Features, CTA, Footer

MAIN APPLICATION SCREEN

[Sketch your main app interface here]

Include: Navigation, Main action area, Sidebar (if needed)

MOBILE RESPONSIVE VIEW

[Mobile View]

[Tablet View]

Essential Code Snippets

AUTHENTICATION BOILERPLATE

```
// Your auth setup code here
_____________________________________
_____________________________________
_____________________________________
```

STRIPE INTEGRATION

```
// Payment processing setup
_____________________________________
_____________________________________
_____________________________________
```

API ENDPOINTS

METHOD	ENDPOINT	PURPOSE	STATUS
POST	/api/auth/register	User registration	☐
POST	/api/auth/login	User login	☐
GET	/api/user/profile	Get user data	☐
			☐
			☐

ENVIRONMENT VARIABLES

```
DATABASE_URL=_____________________
STRIPE_SECRET_KEY=_____________________
STRIPE_PUBLIC_KEY=_____________________
JWT_SECRET=_____________________
```

```
EMAIL_API_KEY=_____________________
ANALYTICS_ID=_____________________
```

Testing Checklist

FUNCTIONALITY TESTING

- [ ] User can register successfully
- [ ] User can login/logout
- [ ] Password reset works
- [ ] Core feature #1 works as expected
- [ ] Core feature #2 works as expected
- [ ] Core feature #3 works as expected
- [ ] Payment processing successful
- [ ] Email notifications sent correctly

CROSS-BROWSER TESTING

- [ ] Chrome (Desktop)
- [ ] Firefox (Desktop)
- [ ] Safari (Desktop)
- [ ] Chrome (Mobile)
- [ ] Safari (iOS)

PERFORMANCE CHECKLIST

- [ ] Page load time < 3 seconds
- [ ] Mobile responsive on all screens
- [ ] Images optimized
- [ ] Database queries optimized
- [ ] Caching implemented

SECURITY CHECKLIST

- [ ] SSL certificate installed
- [ ] Input validation on all forms
- [ ] SQL injection prevention

- [ ] XSS protection enabled
- [ ] Sensitive data encrypted

Bug Tracking Log

DATE	BUG DESCRIPTION	SEVERITY	STATUS	FIXED
		Critical		☐
		Major		☐
		Minor		☐
				☐
				☐
				☐
				☐
				☐

COMMON ISSUES & SOLUTIONS

Issue 1: _____

Solution: _____

Issue 2: _____

Solution: _____

Issue 3: _____

Solution: _____

> 💡 PRO TIP
>
> Fix critical bugs immediately. Major bugs before launch. Minor bugs can wait for v1.1!

Launch Day Countdown

T-7 DAYS

- [ ] Final feature freeze - no new features!
- [ ] Complete all critical bug fixes
- [ ] Set up production environment

T-5 DAYS

- [ ] Deploy to staging environment
- [ ] Full end-to-end testing
- [ ] Load testing completed

T-3 DAYS

- [ ] Marketing website ready
- [ ] Documentation written
- [ ] Support system set up

T-1 DAY

- [ ] Final production deployment
- [ ] DNS propagation check
- [ ] Payment system live test
- [ ] Analytics tracking verified
- [ ] Launch announcement scheduled

LAUNCH DAY!

- [ ] 6 AM: Final systems check
- [ ] 8 AM: Go live!
- [ ] 9 AM: Send launch emails
- [ ] 10 AM: Post on social media

- [ ] All day: Monitor and respond

Post-Launch Issues Tracker

FIRST 24 HOURS

Launch time: _____

First visitor time: _____

First signup time: _____

First payment time: _____

ISSUES ENCOUNTERED

TIME	ISSUE	RESOLUTION	TIME TO FIX

USER FEEDBACK LOG

Positive feedback:

Feature requests:

Complaints/Issues:

FIRST WEEK METRICS

Total visitors: _____

Signups: _____

Paying customers: _____

Conversion rate: _____%

Revenue: $_____

Churn: _____%

Development Resources

ESSENTIAL TOOLS

- **Version Control:** GitHub, GitLab, Bitbucket
- **IDE:** VS Code, WebStorm, Sublime
- **Database Tools:** TablePlus, DBeaver, phpMyAdmin
- **API Testing:** Postman, Insomnia
- **Deployment:** Vercel, Netlify, Heroku, Railway

LEARNING RESOURCES USED

- **Tutorial 1:** _____
- **Tutorial 2:** _____
- **Documentation:** _____
- **Stack Overflow solutions:** _____

CODE SNIPPETS & LIBRARIES

Authentication library: _____
UI component library: _____
Payment library: _____
Email service: _____
Analytics: _____

EMERGENCY CONTACTS

Technical mentor: _____
Designer: _____
Beta tester #1: _____
Beta tester #2: _____

VENDOR SUPPORT

SERVICE	SUPPORT EMAIL	RESPONSE TIME
Hosting		

SERVICE	SUPPORT EMAIL	RESPONSE TIME
Payment		
Email		

Daily Build Diary

DAY 1-3 NOTES

What I built:

Challenges faced:

Tomorrow's priority:

DAY 4-7 NOTES

What I built:

Challenges faced:

Tomorrow's priority:

DAY 8-11 NOTES

What I built:

Challenges faced:

Tomorrow's priority:

DAY 12-14 NOTES

What I built:

Challenges faced:

Build Phase Weekly Review

WEEK 1 METRICS

Hours worked: _____

Lines of code written: _____

Features completed: _____ / _____

Bugs fixed: _____

Tests written: _____

PROGRESS ASSESSMENT

On schedule? Yes ☐ No ☐

If no, why not: _____

Biggest win this week:

Biggest challenge:

WEEK 2 PLAN

Top 3 priorities:

1. _____
2. _____
3. _____

Potential roadblocks:

Help needed with:

ENERGY & MOTIVATION CHECK

Energy level (1-10):

1	2	3	4	5	6	7	8	9	10

Module 3 Completion & Reflection

FINAL BUILD STATS

Total development time: _____ hours

Features shipped: _____ / _____

Known bugs remaining: _____

Code quality (1-10): _____

Ready to launch? YES! ☐ Almost ☐ Not yet ☐

KEY LEARNINGS

1. The hardest technical challenge I overcame:

2. The most important technical skill I learned:

3. What I would do differently next time:

4. My proudest achievement in this build:

🎉 MODULE 3 COMPLETE!

You built a working product from scratch!

Your MVP is ready. Your code is deployed.

Time to MONETIZE! 💰

READY FOR MODULE 4 CHECKLIST

- [ ] MVP fully functional
- [ ] Payment system integrated
- [ ] Deployed to production
- [ ] Basic testing complete
- [ ] Ready for real users!