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	

Module Progress Checklist

Lesson 1: Tech Stack Selection
Lesson 2: MVP Architecture Plannin
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	Option B: Modern Stack
HTML/CSS/Vanilla JS	React/Vue/Svelte
Bootstrap/Tailwind	Next.js/Nuxt
jQuery (if needed)	TypeScript
✓ Best for: Conversion tools, calculators	\checkmark Best for: Complex interactions, dashboards
BACKEND SELECTION	
Option A: Serverless	Option B: Traditional
Vercel/Netlify Functions	Node.js/Express
Supabase/Firebase	Python/Django
AWS Lambda	Ruby on Rails
✓ Best for: Low maintenance, scale automatically	✓ Best for: Complex logic, full control

MY FINAL STACK DECISION

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

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		
IN	IFRASTRUCTURE REQUIREMENT	TS	
•••		. •	
	User authentication system		
	Database schema designed		
	Payment integration		
	Email notifications		
	Basic analytics tracking		
	Error handling & logging		
	Basic security measures		
NI	ICE-TO-HAVE FEATURES (POST-	·LAUNCH)	
	·		
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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 1-2Day 3-5Day 6-8Day 9-11Day 12-14SetupBackendFrontendIntegrationTesting

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]

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CODE LIBRARY

MODULE 3: BUILDING

Essential Code Snippets

AUTHENTICATION BOILERPLATE

STRIPE INTEGRATION

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		
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Bug Tracking Log

DATE	BUG DESCRIPTION	SEVERITY	STATUS	FIXED
		Critical		
		Major		
		Minor		

COMMON ISSUES & SOLUTIONS

Issue 1:	
Solution:	
Issue 2:	
Solution:	
Issue 3:	 -

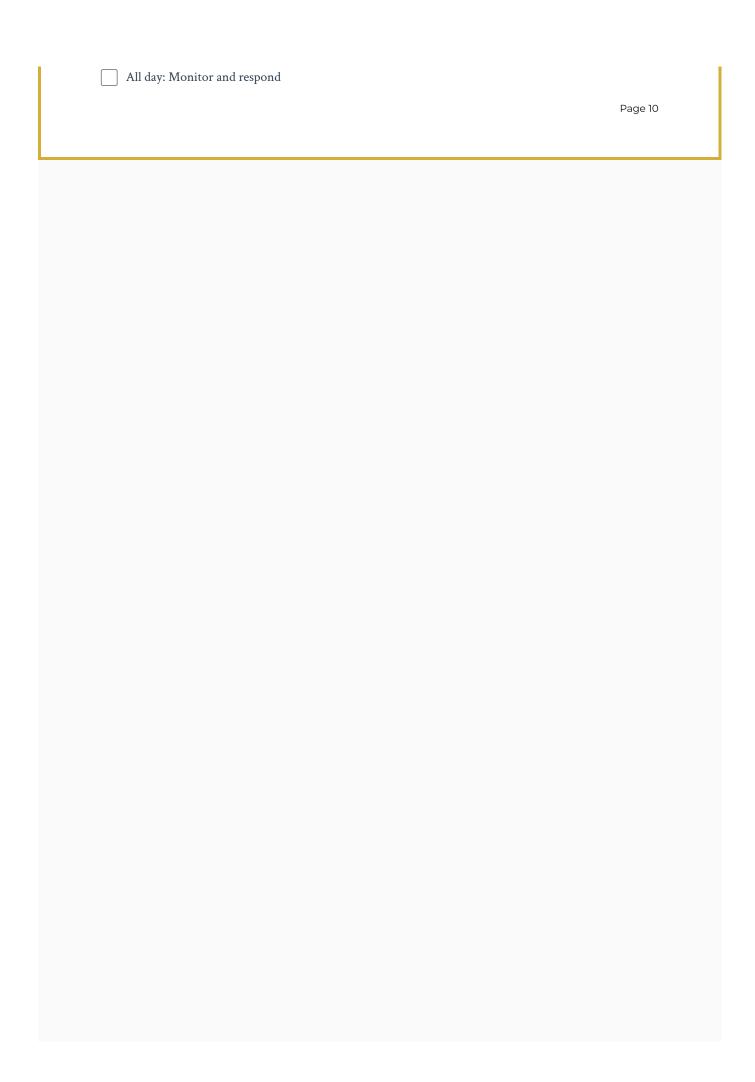
PRO TIP

Fix critical bugs immediately. Major bugs before launch. Minor bugs can wait for v1.1!

T-7 DAYS

Launch Day Countdown

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



Post-Launch Issues Tracker

FIRST 24 H	HOURS		
First visitor time: First signup time: First payment tin	:		
TIME	ISSUE	RESOLUTION	TIME TO FIX
USER FEEI	DBACK LOG		
Positive feedback	:		
Feature requests:			
Complaints/Issue	es:		

FIRST WEEK METRICS

Total visitors:	Conversion rate:%	
Signups:	Revenue: \$	
Paying customers:	Churn:%	
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Development Resources

ESSENTIAL TOOLS

- Version Control: GitHub, GitLab, Bitbucket
- IDE: VS Code, WebStorm, Sublime
- Database Tools: TablePlus, DBeaver, phpMyAdmin
- API Testing: Postman, Insomnia

• Tutorial 1: _____

• Deployment: Vercel, Netlify, Heroku, Railway

LEARNING RESOURCES USED

• 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:

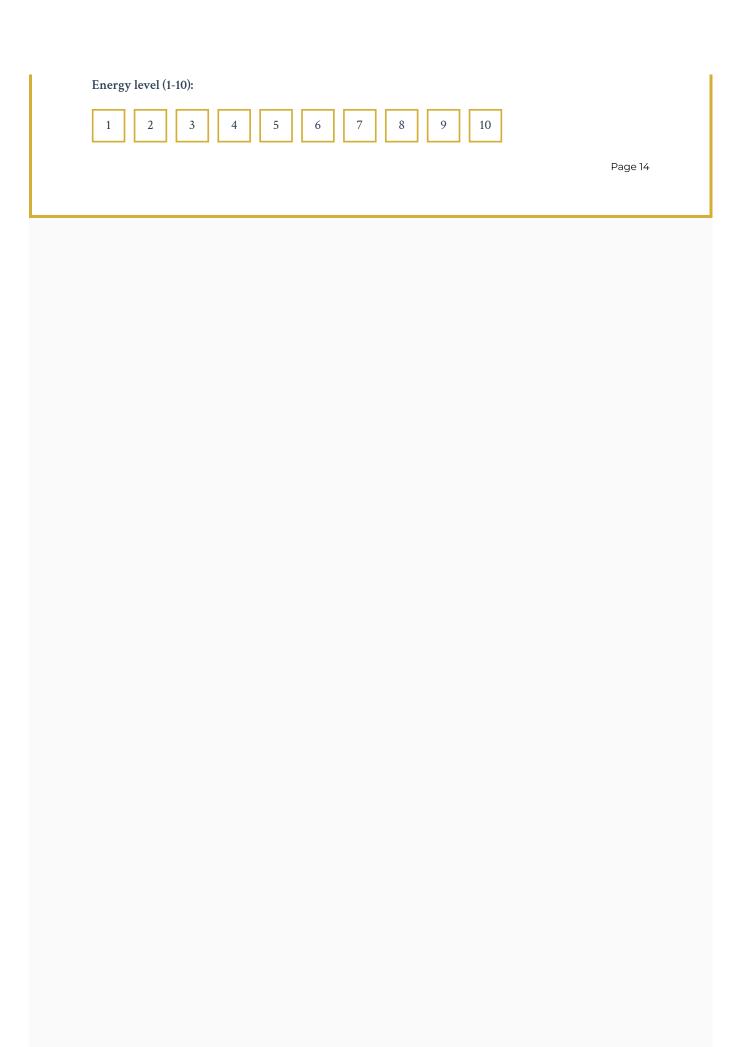
DAY 12-14 NOTES		
What I built:		
Challenges faced:		

WEEK 1 METRICS

Build Phase Weekly Review

Hours worked: _____ Lines of code written: _____ Features completed: _____/ _____ Bugs fixed: _____ Tests written: _____ **PROGRESS ASSESSMENT** On schedule? Yes \square No \square If no, why not: _____ Biggest win this week: Biggest challenge: **WEEK 2 PLAN** Top 3 priorities: Potential roadblocks: Help needed with:

ENERGY & MOTIVATION CHECK



Module 3 Completion & Reflection

FINAL BUILD STATS

Total development time: hours
Features shipped:/
Known bugs remaining:
Code quality (1-10):
Ready to launch? YES! \square Almost \square Not yet \square
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:



You built a working product from scratch!

Your MVP is ready. Your code is deployed.



READY FOR MODULE 4 CHECKLIST MVP fully functional Payment system integrated Deployed to production Basic testing complete Ready for real users!