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 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		

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:

> (empty field)

Challenges faced:

> (empty field)

Tomorrow's priority:

> (empty field)

DAY 4-7 NOTES

What I built:

> (empty field)

Challenges faced:

> (empty field)

Tomorrow's priority:

> (empty field)

DAY 8-11 NOTES

What I built:

> (empty field)

Challenges faced:

> (empty field)

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.

READY FOR MODULE 4 CHECKLIST

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