

# AIVIUE 45-DAY MVP IMPLEMENTATION PLAN

## Complete Platform Development with Day 25 Customer Launch

### CRITICAL MILESTONE: DAY 25 - CUSTOMER LAUNCH

**Current Status:** Employer Module and ChatAgent development already in progress

**By Day 25,** the platform will be 100% customer-ready with:

- Complete Employer Module (job posting to candidate hiring)
- Complete Candidate Module (signup to job matching to interviewing)
- 22 AI Agents fully operational
- Screening Agent integrated
- Production deployment live
- First customers onboarding

**Days 26-45:** Admin Module for operational intelligence, cost tracking, and scale management.

**Note:** Days 1-13 have been adjusted to reflect work already completed or in progress on the Employer Module and ChatAgent.

### Timeline At-A-Glance

Phase	Days	Focus	Customer Impact	Status
Phase 1	1-6	Foundation & Platform	Infrastructure ready	IN PROGRESS
Phase 2	7-13	Employer Module	Employers can post jobs	IN PROGRESS
Phase 3	14-20	Candidate Module	Candidates can apply	Upcoming
Phase 4	21-25	Integration & Launch	GO LIVE	Upcoming
Phase 5	26-35	Admin Module Core	Internal ops intelligence	Post-launch
Phase 6	36-45	Admin Optimization	Scale & automation	Post-launch

**Current Focus:** Completing Employer Module + Beginning Candidate Module

## **Complete Agent Architecture (32 Total)**

### **Customer-Facing Agents (Days 1-25) - 22 Agents**

#### **Employer Module (9)**

1. OnboardingAgent - Company profile
2. JobAgent - JD parsing & enhancement
3. TemplateAgent - JD templates
4. MarketingAgent - Videos & posters
5. ScreeningAgent - *External integration*
6. SchedulingAgent - Interview management
7. CommunicationAgent - Messaging
8. AnalyticsAgent - Employer insights
9. IntegrationAgent - ATS sync

#### **Candidate Module (13)**

1. Aivi (Orchestrator) - Main copilot
2. ChatAgent - WhatsApp conversations
3. VoiceAgent - Voice screening
4. ResumeAgent - Resume parsing
5. ScoringAgent - Fit/Intent/VoiceFit
6. RecommendationAgent - Job matching
7. EngagementAgent - Nudges
8. LearningAgent - Preferences
9. NotificationAgent - Multi-channel alerts
10. DocumentAgent - Document handling
11. ProfileAgent - Profile enrichment
12. DashboardAgent - UI orchestration
13. LearningContentAgent - Micro-learning

### **Internal Agents (Days 26-45) - 10 Agents**

#### **Admin Module (10)**

1. AdminAgent - Admin orchestrator
2. SpendAgent - Cost tracking
3. AnomalyAgent - Anomaly detection
4. ProfitabilityAgent - Revenue prediction

5. WarningAgent - Predictive warnings
  6. OptimizationAgent - Corrective actions
  7. BroadcastAgent - Campaigns
  8. BulkOpsAgent - Bulk operations
  9. AnalyticsAgent - Admin dashboards
  10. LearningAgent - Model improvement
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## **PHASE 1: FOUNDATION (Days 1-6)**

### **Day 1: Infrastructure Setup - COMPLETED**

**Status:** Already done as part of initial setup

#### **What Was Delivered:**

- Complete database schema (all 25+ tables)
- Supabase project configured (auth, storage, database)
- Development environment ready
- Git repository initialized
- Can create test users and upload files

#### **Key Tables Created:**

- companies, company\_settings
- jobs, job\_templates
- candidates, applications
- screening\_sessions, voice\_screenings
- interviews, assets, events
- recruiter\_preferences, candidate\_engagement

**If Not Fully Complete:** Review and ensure all tables exist and are properly indexed.

### **Day 2: API Gateway & Event Bus - IN PROGRESS**

**Status:** API structure exists, event bus may need completion

#### **What Should Be Delivered:**

- NestJS API server operational
- Complete REST API scaffolded (/auth, /companies, /jobs, /candidates, /applications, /interviews)
- Event bus system working (publish/subscribe)
- Base agent framework ready

- Redis queue configured
- All middleware (auth, logging, errors, rate limiting)

### Key Architecture:

typescript

EventBus → Agents → Database → API → Frontend

### Action Items:

- Review current API structure - ensure all endpoints are scaffolded
- Verify event bus is working (if not, implement it now)
- Ensure base agent class exists for all agents to extend
- Configure Redis if not already done

## Day 3: Company Onboarding - IN PROGRESS

**Status:** Started, likely needs completion and polish

### What Should Be Delivered:

- Employer signup flow complete
- OnboardingAgent operational
- Company profile management working
- Logo upload functional
- Company settings initialized

### Action Items:

- Complete any remaining signup flow steps
- Ensure OnboardingAgent is properly connected to event bus
- Test end-to-end: signup to profile creation to dashboard access
- Polish UI/UX for signup flow

## Day 4: Job Creation & AI Intelligence - IN PROGRESS

**Status:** Job creation started, AI parsing may be in progress

### What Should Be Delivered:

- Job creation API complete
- JobAgent with GPT-4 JD parsing (85%+ accuracy)
- JD enhancement working

- TemplateAgent for reusable JDs
- Job creation time <3 minutes

#### **Action Items:**

- Complete job creation API if not finished
- Implement or complete GPT-4 JD parsing
- Test JD parsing accuracy with 10+ real job descriptions
- Build template system
- Optimize for <3 minute job creation time

### **Day 5: WhatsApp Integration - IN PROGRESS**

**Status:** ChatAgent development ongoing, WATI integration may be started

#### **What Should Be Delivered:**

- WATI API integrated
- Webhook handling incoming messages
- ChatAgent (basic) responding
- Aivi Orchestrator (basic) routing messages
- Message logging 100% reliable

#### **Action Items:**

- Complete WATI API setup if not done
- Finish ChatAgent implementation (for employer communication)
- Test webhook with real WhatsApp messages
- Ensure message logging is reliable
- Build Aivi Orchestrator for message routing

**Note:** ChatAgent for employers is already in progress. Ensure it's ready for candidate interactions too.

### **Day 6: Candidate Signup & Resume Parsing - NEXT PRIORITY**

**Status:** Not started yet - high priority to begin

#### **Deliverables:**

- Candidate signup (phone-based) working
- Resume upload API functional
- ResumeAgent parsing resumes (85%+ accuracy)
- ProfileAgent creating profiles
- Profile completeness scoring

**Action Items:**

- Build candidate signup flow
- Implement resume upload and storage
- Integrate resume parsing (GPT-4 or dedicated service)
- Build ResumeAgent and ProfileAgent
- Test with 10+ different resume formats

**Note:** This is critical for the candidate module - prioritize starting this as soon as possible.

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**PHASE 2: EMPLOYER MODULE (Days 7-13) - IN PROGRESS**

**Current Status:** Employer module development ongoing. Focus on completing remaining features.

**Day 7: Application Management**

**Priority:** Complete this to enable job-candidate linking

**Deliverables:**

- Application creation API
- Application status management
- Job-candidate linking
- Application events tracking

**Day 8: AI Video Generation**

**Priority:** Can be deferred post-launch if needed

**Deliverables:**

- MarketingAgent with video generation
- Integration with Synthesia/D-ID/HeyGen
- 40-60 sec video JDs generating
- Video formats: vertical, square, landscape
- QR codes embedded

**Note:** This can be deprioritized if timeline is tight. Focus on core hiring flow first.

**Day 9: AI Poster Generation**

**Priority:** Can be deferred post-launch if needed

**Deliverables:**

- Poster generation (3 designs per job)
- Brand elements incorporated
- Social media optimized
- Download/share functional

**Note:** Like videos, this can be post-launch if needed.

## **Day 10: Interview Scheduling**

**Priority:** Critical for launch

### **Deliverables:**

- SchedulingAgent operational
- Google Calendar integration
- Interview creation/update/cancel
- Reminder system (24h before)
- Calendar event creation

## **Day 11: ATS Integration Framework**

**Priority:** Can be deferred to post-launch if needed

### **Deliverables:**

- IntegrationAgent built
- Darwinbox integration complete
- Zoho Recruit integration complete
- Bi-directional sync working
- Field mapping functional
- Sync success rate >95%

**Note:** While valuable for enterprise customers, ATS integration is not critical for Day 25 launch. Can be completed in Days 26-45 if timeline is tight.

## **Day 12: Employer Analytics**

**Priority:** Important for Day 25 launch

### **Deliverables:**

- AnalyticsAgent (basic) operational
- Job-level metrics (views, applies, shortlists, hires)
- Funnel analysis
- Time-to-hire tracking

- Source performance

### **Day 13: Employer Dashboard & Pipeline**

**Priority:** Critical - main employer interface

**Deliverables:**

- Employer dashboard UI complete
  - Candidate pipeline view
  - Candidate cards with scores
  - Filtering and sorting
  - Shortlist/reject actions
  - Interview scheduling UI
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### **PHASE 3: CANDIDATE MODULE (Days 14-20) - UPCOMING**

**Status:** Not started. Begin immediately after completing critical employer features (Days 6, 7, 10, 11, 13).

### **Day 14: Screening Session Integration Setup**

**Priority:** Critical - sets up integration with external screening agent

**Deliverables:**

- Database tables for screening session tracking
- API wrapper service for screening agent
- ScreeningService class to call external screening agent
- Platform API endpoints: create session, get results, get fit score
- ChatAgent integration architecture (prepare for Days 22-24)
- Error handling and retry logic framework

**Note:** The screening logic, Q&A flow, and scoring models are already built in the external screening agent. This day focuses on integration architecture.

### **Day 15: Voice Agent Infrastructure**

**Deliverables:**

- Twilio/Exotel integration
- STT (Speech-to-Text) setup
- TTS (Text-to-Speech) setup
- VoiceAgent (basic) making calls



- Call recording and storage

## **Day 16: VoiceFit Scoring**

### **Deliverables:**

- VoiceFit calculation (clarity + confidence + tone)
- Voice analysis working
- Transcript generation
- VoiceFit integrated into scoring

## **Day 17: Scoring System Integration**

**Priority:** Critical - integrates all scoring components

### **Deliverables:**

- ScoringAgent complete
- Fetch Fit Score from external screening agent API
- Calculate Intent Score (platform-based: application speed, profile completeness, response rate)
- Integrate VoiceFit Score (from VoiceAgent)
- Composite scoring algorithm (Fit 40% + Intent 30% + VoiceFit 30%)
- Joining Probability calculation (Low/Medium/High based on composite)
- Update applications table with all scores
- Score recalculation triggers

**Note:** Scoring models for Fit score are already built in the screening agent. This day focuses on fetching that score and combining it with platform-generated scores (Intent, VoiceFit).

## **Day 18: Job Matching & Recommendations**

### **Deliverables:**

- RecommendationAgent operational
- Job-candidate matching algorithm
- Personalized job feed
- Match score calculation
- One-tap apply flow

## **Day 19: Candidate Dashboard**

### **Deliverables:**

- Candidate dashboard UI (mobile-first)
- Profile view and editor

- Application history
- Job recommendations display
- Interview schedule view

## **Day 20: Engagement & Notifications**

### **Deliverables:**

- EngagementAgent with nudge system
  - NotificationAgent (WhatsApp, SMS, Email, Push)
  - CommunicationAgent for employer messaging
  - Nudge templates and scheduling
  - Multi-channel delivery working
  - Micro-learning (basic daily tips)
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## **PHASE 4: INTEGRATION & LAUNCH (Days 21-25)**

### **Day 21: End-to-End Testing**

#### **Critical Flows to Test:**

1. **Employer Flow:** Signup → Create job → Generate video/poster → Publish → View candidates → Shortlist → Schedule interview
2. **Candidate Flow:** Signup → Upload resume → Get screened → Voice call → View jobs → Apply → Get shortlisted → Schedule interview

#### **Deliverables:**

- All happy path flows working
- Edge cases handled
- Error states tested
- Performance validated (<300ms API, <2s page load)

### **Day 22: Screening Agent Integration (Day 1)**

**Focus:** Understanding existing screening agent

#### **Deliverables:**

- API documentation reviewed
- All endpoints tested manually
- TypeScript interfaces created

- Integration contract defined
- Mock endpoints working

### API Contract:

typescript

**POST** /screening/start → { session\_id, first\_question }

**POST** /screening/answer → { next\_question?, completed }

**GET** /screening/results/:id → { fit\_score, qa\_pairs, knockout\_failed }

## Day 23: Screening Agent Integration (Day 2)

**Focus:** Platform integration

### Deliverables:

- ScreeningService wrapper created
- ChatAgent integrated with screening
- ScoringAgent fetching fit scores
- Event flow working (screening.started → screening.completed → application.scored)
- Retry logic and error handling

## Day 24: Screening Agent Integration (Day 3) + Polish

**Focus:** Testing & UI polish

### Deliverables:

- Complete end-to-end screening flow tested
- All edge cases handled
- UI/UX polished (error states, empty states, loading states)
- Copy finalized
- Responsive design verified

## DAY 25: PRODUCTION DEPLOYMENT & CUSTOMER LAUNCH

### Morning (Setup & Deploy):

- Production Supabase project created
- Environment variables configured
- Database migrated to production
- Frontend deployed to Vercel
- Backend deployed to Railway/Render

- SSL configured
- Domain configured
- Monitoring enabled (Sentry, analytics)

#### **Afternoon (Testing & Validation):**

- Smoke tests in production
- All integrations verified (WhatsApp, ATS, Calendar, Voice)
- Load testing (100 concurrent users)
- Security audit checklist completed

#### **Evening (Go Live):**

- First 5-10 pilot employers onboarded
- First 20-50 candidates registered
- Customer success team briefed
- Support channels ready
- Launch announcement sent
- Monitor closely for 24 hours

#### **What's Live on Day 25:**

- Employer signup and job posting
- AI JD parsing and enhancement
- AI video and poster generation
- Candidate signup and resume parsing
- WhatsApp conversations
- Voice screening
- Fit/Intent/VoiceFit scoring
- Job matching and recommendations
- Applications and shortlisting
- Interview scheduling
- ATS integration (2 platforms)
- Multi-channel notifications
- Basic analytics

#### **Success Criteria for Day 25:**

- ☐ 10 employers signed up
- ☐ 50 jobs posted

- ☐ 200 candidates registered
  - ☐ 100 applications submitted
  - ☐ 20 interviews scheduled
  - ☐ 5 hires made through platform
  - ☐ System uptime >99%
  - ☐ No critical bugs
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## **PHASE 5: ADMIN MODULE CORE (Days 26-35)**

### **Day 26: Admin Foundation & Database**

#### **Deliverables:**

- Admin module database tables created
  - metrics\_daily, spend\_data
  - anomalies, profitability\_predictions
  - warnings, broadcasts, bulk\_operations
- Admin authentication & authorization
- AdminAgent orchestrator built
- Admin API scaffolding

### **Day 27: Spend Tracking**

#### **Deliverables:**

- SpendAgent operational
- Meta Ads spend import
- Google Ads spend import
- WhatsApp cost tracking
- Cost per lead calculation
- Cost per hire calculation
- Spend analytics dashboard

### **Day 28: Cost Attribution**

#### **Deliverables:**

- Spend attribution logic (lead → source → campaign → cost)
- Cost per curated candidate
- Geography-based cost analysis
- Channel-based yield analysis

- Cost intelligence dashboard

## **Day 29: Metrics & Analytics**

### **Deliverables:**

- Daily metrics aggregation
- Company-level metrics
- Job-level metrics
- Funnel metrics (leads → screened → qualified → hired)
- Admin analytics dashboard

## **Day 30: Anomaly Detection (Core)**

### **Deliverables:**

- AnomalyAgent built
- Detect: cost spikes, quality drops, screening failures
- Severity classification (low, medium, high, critical)
- Root cause analysis (basic rules)
- Anomaly alerts

## **Day 31: Profitability Prediction**

### **Deliverables:**

- ProfitabilityAgent operational
- Employer revenue calculation (subscription + credits + upsells)
- Employer cost calculation (ads + WhatsApp + compute + voice)
- Daily profitability tracking
- Profit prediction (7-day, 30-day)
- Churn risk scoring

## **Day 32: Warning System**

### **Deliverables:**

- WarningAgent built
- Predict: cost surges, supply shortages, campaign fatigue
- Priority classification
- Warning notifications (email, Slack)
- Warning dashboard

## **Day 33: Anomaly & Warning Actions**

### **Deliverables:**

- OptimizationAgent built
- Recommended actions for anomalies
- Recommended actions for warnings
- One-click action execution
- Action tracking and results

## **Day 34: Broadcasting Engine**

### **Deliverables:**

- BroadcastAgent operational
- Segment creation (location, skills, activity, scores)
- Multi-channel broadcasts (WhatsApp, SMS, Email)
- Campaign scheduling
- Campaign analytics (sent, delivered, responded)

## **Day 35: Admin Dashboard V1**

### **Deliverables:**

- Complete admin dashboard UI
  - Real-time metrics cards
  - Anomaly alerts feed
  - Warning notifications
  - Profitability charts
  - Cost breakdown views
  - Quick actions panel
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## **PHASE 6: ADMIN OPTIMIZATION & SCALE (Days 36-45)**

### **Day 36: Bulk Operations**

#### **Deliverables:**

- BulkOpsAgent operational
- Bulk candidate import (CSV/Excel)
- Bulk resume parsing

- Bulk job creation/update
- Parallel processing (10,000+ records)
- Error handling and retry
- Progress tracking UI

## **Day 37: Advanced Anomaly Detection**

### **Deliverables:**

- Enhanced anomaly types
  - Screening loop detection
  - Voice call failure patterns
  - Chat fallback patterns
  - ATS sync delays
  - Regional performance drops
- ML-based anomaly scoring (simple models)
- Automated anomaly resolution (for low-severity)

## **Day 38: Predictive Analytics**

### **Deliverables:**

- Interview no-show prediction
- Offer acceptance prediction
- Time-to-fill prediction
- Candidate supply prediction
- Seasonal trend analysis
- Predictive recommendations

## **Day 39: Employer Health Monitoring**

### **Deliverables:**

- Employer health score (composite metric)
- Activity tracking (jobs posted, hires made)
- Engagement tracking (logins, actions)
- Churn indicators
- Renewal likelihood prediction
- Proactive intervention triggers



## **Day 40: Advanced Broadcasting**

### **Deliverables:**

- A/B testing for campaigns
- Dynamic segmentation
- Personalized messaging
- Campaign optimization recommendations
- Retargeting campaigns
- Campaign performance ML analysis

## **Day 41: Compliance & Governance**

### **Deliverables:**

- DPDP compliance checklist complete
- Consent management system
- Data retention automation
- PII masking in logs
- Audit trail complete
- Data deletion workflows
- Privacy controls

## **Day 42: Admin Optimization**

### **Deliverables:**

- Database query optimization
- Index optimization
- Cache strategy implementation
- Admin dashboard performance <1s load
- Bulk operations throughput >1000 records/min

## **Day 43: System Intelligence**

### **Deliverables:**

- LearningAgent (Admin) operational
- Learn from anomaly patterns
- Improve prediction accuracy
- Optimize recommendation quality
- Auto-tune system parameters

## **Day 44: Integration Testing & Documentation**

### **Deliverables:**

- Admin module end-to-end tested
- Integration with customer modules verified
- Complete API documentation
- Admin user guide
- Troubleshooting guide
- SOP documentation
- Video tutorials

## **Day 45: Admin Module Launch & Handoff**

### **Deliverables:**

- Admin module deployed to production
- Admin team trained
- Monitoring configured
- Alerts tuned
- Documentation complete
- Knowledge transfer sessions held
- Post-launch support plan ready

### **What's Complete on Day 45:**

- Full platform operational (32 agents)
- Customer modules (Employer + Candidate)
- Admin modules (Operations + Intelligence)
- Real-time anomaly detection
- Cost intelligence and profitability prediction
- Predictive warnings
- Bulk operations at scale
- Broadcasting and campaigns
- Complete compliance
- Production-grade monitoring
- Ready for scale (10,000+ users)