









Complete Wedmantra App Development Roadmap (2.5 Months)









MIRRAW-INSPIRED FEATURES FOR MVP

Based on Mirraw analysis, here are MUST-HAVE features for your MVP:





Core Features (Week 1-4)

-  User Registration/Login (Phone OTP)
-  Product Catalog with Categories
-  Search & Filters (Fabric, Price, Occasion)
-  Shopping Cart
-  Wishlist
-  Order Management
-  Payment Gateway (Razorpay + COD)
-  Basic Admin Panel

Mobile App Essential Features (Week 5-8)

-  Home Screen with Banners
-  Product Grid/List View
-  Product Details with Image Gallery
-  Search with Voice Input
-  Filter & Sort
-  User Profile & Addresses
-  Order Tracking
-  Push Notifications

Nice-to-Have (Week 9-10)

-  Referral Program
-  Basic Analytics
-  Recently Viewed
-  Customer Support Chat

DETAILED TIMELINE

WEEK 1-2: Backend Foundation

Goal: Fix critical issues & set up solid foundation

Backend Critical Fixes:

```
bash
```

```
# Day 1-3: Fix Breaking Issues
```

1. Fix Redis connection (new syntax)
2. Add missing model methods
3. Fix authentication middleware
4. Fix route ordering (search before :id)
5. Add input validation

Mobile App Setup:

```
bash
```

```
# Day 4-7: React Native Setup
```

```
npx react-native init WedmantraApp
```

```
# OR
```

```
npm install -g @ionic/cli
```

```
ionic start WedmantraApp tabs --type=react --capacitor
```

WEEK 3-4: Core Backend APIs

Goal: Complete all essential APIs

API Endpoints to Complete:

```
javascript
```

```
// Essential APIs for MVP
```

```
GET /api/mobile/home // Home screen data
```

```
GET /api/products/search // Product search
```

```
GET /api/products/categories // Category-wise products
```

```
POST /api/auth/otp-login // OTP-based login
```

```
GET /api/user/addresses // User addresses
```

```
POST /api/orders/create // Order creation
```

```
GET /api/orders/track/:id // Order tracking
```

WEEK 5-6: Mobile App Core

Goal: Build main mobile app screens

Key Screens:

1. **Splash & Onboarding**
2. **Login/Register (OTP)**
3. **Home Screen**
4. **Product Listing**
5. **Product Details**
6. **Search & Filters**
7. **Cart**
8. **Profile**

WEEK 7-8: Mobile App Advanced

Goal: Complete shopping flow

Advanced Features:

1. **Checkout Flow**
2. **Payment Integration**
3. **Order Management**
4. **Address Management**
5. **Wishlist**
6. **Push Notifications**

WEEK 9-10: Testing & Deployment

Goal: App store ready

Final Steps:

1. **Testing & Bug Fixes**
2. **Performance Optimization**
3. **App Store Assets**
4. **Backend Deployment**
5. **App Store Submission**



IMMEDIATE BACKEND FIXES (This Week)

1. Fix Redis Connection

javascript

// src/config/redis.js - REPLACE ENTIRE FILE

```
const redis = require('redis');

const redisClient = redis.createClient({
  host: process.env.REDIS_HOST || 'localhost',
  port: process.env.REDIS_PORT || 6379,
  password: process.env.REDIS_PASSWORD,
  legacyMode: true
});

redisClient.on('error', (err) => console.log('Redis Client Error', err));
redisClient.on('connect', () => console.log('Redis Connected'));

// Connect
(async () => {
  await redisClient.connect();
})();

module.exports = redisClient;
```

2. Add Missing Model Methods

javascript

```
// Add to src/models/productModel.js
```

```
async getBySKU(sku) {  
  const result = await db.query('SELECT * FROM products WHERE sku = $1', [sku]);  
  return result.rows[0];  
},  
  
async getFeatured(limit = 10) {  
  const result = await db.query(  
    'SELECT * FROM products WHERE featured = true AND status = \'active\' ORDER BY created_at DESC LIMIT $1',  
    [limit]  
  );  
  return result.rows;  
},
```

```
// Add to src/models/orderModel.js
```

```
async getAllOrders() {  
  const result = await db.query(  
    `SELECT o.*, u.first_name, u.last_name, u.email  
    FROM orders o  
    LEFT JOIN users u ON o.user_id = u.id  
    ORDER BY o.created_at DESC`  
  );  
  return result.rows;  
}
```

3. Mobile-Optimized APIs

javascript

// src/routes/mobile.js - NEW FILE

```
const express = require('express');
const router = express.Router();
const ProductModel = require('../models/productModel');
const CategoryModel = require('../models/categoryModel');
const BannerModel = require('../models/bannerModel');
```

// Home screen data

```
router.get('/home', async (req, res) => {
  try {
    const [banners, categories, featured] = await Promise.all([
      BannerModel.getActiveBanners(),
      CategoryModel.getAll(),
      ProductModel.getFeatured(8)
    ]);

    res.json({
      success: true,
      data: {
        banners: banners.slice(0, 5),
        categories: categories.slice(0, 6),
        featuredProducts: featured,
        offers: {
          title: "Special Offers",
          subtitle: "Up to 70% Off"
        }
      }
    });
  } catch (error) {
    res.status(500).json({ success: false, error: error.message });
  }
});
```

// Product search with mobile-optimized response

```
router.get('/products/search', async (req, res) => {
  try {
    const { q, category, minPrice, maxPrice, page = 1, limit = 20 } = req.query;

    const result = await ProductModel.search({
      q, category_id: category, min_price: minPrice,
      max_price: maxPrice, page, limit
    });

    res.json({
      success: true,
```

```
    success: true,  
    data: result.products,  
    pagination: {  
      page: parseInt(page),  
      limit: parseInt(limit),  
      total: result.total,  
      hasMore: (page * limit) < result.total  
    }  
  });  
} catch (error) {  
  res.status(500).json({ success: false, error: error.message });  
}  
});  
  
module.exports = router;
```

MOBILE APP ARCHITECTURE

Tech Stack Decision:

bash

RECOMMENDED: React Native with Expo (Faster Development)

npx create-expo-app WedmantraApp --template

cd WedmantraApp

Essential Dependencies

npm install @react-navigation/native @react-navigation/stack

npm install react-native-vector-icons react-native-image-picker

npm install @reduxjs/toolkit react-redux redux-persist

npm install axios react-native-async-storage

npm install react-native-push-notification

Folder Structure:

```
WedmantraApp/
├── src/
│   ├── components/
│   │   ├── common/
│   │   ├── ProductCard.js
│   │   ├── CategoryCard.js
│   │   └── CartItem.js
│   ├── screens/
│   │   ├── auth/
│   │   │   ├── LoginScreen.js
│   │   │   └── OTPScreen.js
│   │   ├── home/
│   │   │   └── HomeScreen.js
│   │   ├── products/
│   │   │   ├── ProductListScreen.js
│   │   │   ├── ProductDetailScreen.js
│   │   │   └── SearchScreen.js
│   │   ├── cart/
│   │   │   └── CartScreen.js
│   │   └── profile/
│   │       └── ProfileScreen.js
│   ├── services/
│   │   ├── api.js
│   │   ├── auth.js
│   │   └── storage.js
│   ├── redux/
│   │   ├── store.js
│   │   ├── authSlice.js
│   │   ├── productSlice.js
│   │   └── cartSlice.js
│   ├── utils/
│   │   ├── constants.js
│   │   └── helpers.js
├── assets/
│   ├── images/
│   └── icons/
```

Sample Home Screen (React Native):

javascript

```
// src/screens/home/HomeScreen.js
import React, { useEffect, useState } from 'react';
import { ScrollView, View, Text, FlatList, TouchableOpacity } from 'react-native';
import { api } from '../../services/api';

const HomeScreen = ({ navigation }) => {
  const [homeData, setHomeData] = useState(null);
  const [loading, setLoading] = useState(true);

  useEffect(() => {
    loadHomeData();
  }, []);

  const loadHomeData = async () => {
    try {
      const response = await api.get('/mobile/home');
      setHomeData(response.data.data);
    } catch (error) {
      console.error('Error loading home data:', error);
    } finally {
      setLoading(false);
    }
  };

  const renderBanner = ({ item }) => (
    <TouchableOpacity style={styles.banner}>
      <Image source={{ uri: item.image_url }} style={styles.bannerImage} />
    </TouchableOpacity>
  );

  const renderCategory = ({ item }) => (
    <TouchableOpacity
      style={styles.categoryCard}
      onPress={() => navigation.navigate('ProductList', { categoryId: item.id })}
    >
      <Image source={{ uri: item.image_url }} style={styles.categoryImage} />
      <Text style={styles.categoryName}>{item.name}</Text>
    </TouchableOpacity>
  );

  if (loading) return <LoadingScreen />;

  return (
    <ScrollView style={styles.container}>
      { /* Banner * 1 */ }
    </ScrollView>
  );
};
```

```

    {/* Banners */}
    <FlatList
      data={homeData?.banners}
      renderItem={renderBanner}
      horizontal
      showsHorizontalScrollIndicator={false}
    />

    {/* Categories */}
    <Text style={styles.sectionTitle}>Shop by Category</Text>
    <FlatList
      data={homeData?.categories}
      renderItem={renderCategory}
      numColumns={3}
    />

    {/* Featured Products */}
    <Text style={styles.sectionTitle}>Featured Products</Text>
    <FlatList
      data={homeData?.featuredProducts}
      renderItem={renderProduct}
      horizontal
      showsHorizontalScrollIndicator={false}
    />
  </ScrollView>
);
};

```



DEPLOYMENT STRATEGY

Backend Deployment (Week 8):

```

bash

# Digital Ocean Droplet (Cost-effective for 1000 users)
# 2GB RAM, 1 vCPU - $12/month

# Docker deployment
docker-compose -f docker-compose.production.yml up -d

# PM2 for process management
npm install -g pm2
pm2 start ecosystem.config.js
pm2 startup
pm2 save

```

Mobile App Deployment (Week 9-10):

bash

Android (Google Play Console)

npx react-native run-android --variant=release





iOS (TestFlight -> App Store)

npx react-native run-ios --configuration Release







SUCCESS METRICS

Technical KPIs:

-  API Response Time < 500ms
-  App Load Time < 3 seconds
-  Zero Critical Bugs
-  99.9% Uptime

Business KPIs:

-  100 Users in First Month
 -  4.0+ App Store Rating
 -  5% Cart Conversion Rate
 -  \$10K GMV in First Quarter
-



BONUS FEATURES (If Time Permits)

1. **Voice Search** - "Search for red silk sarees"
 2. **AR Try-On** - Basic virtual draping
 3. **Social Login** - Google/Facebook
 4. **Referral Program** - Earn points for invites
 5. **Push Notifications** - Order updates, offers
-



DEVELOPMENT TIPS

Time-Saving Strategies:

1. **Use UI Libraries:** NativeBase, React Native Elements
2. **Mock Data First:** Test UI before backend completion
3. **Parallel Development:** Backend + Mobile simultaneously
4. **Reuse Components:** Create once, use everywhere
5. **Focus on Core:** Polish later, functionality first

Testing Strategy:

bash

Backend Testing

`npm install --save-dev jest supertest`

`npm run test`

Mobile Testing

`npm install --save-dev detox`

`detox test`

Would you like me to start with the immediate backend fixes or help you set up the mobile app structure first?