



ElAnis Platform - Comprehensive Project Planning

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Project Overview

Project Name: ElAnis - Elderly Care Service Platform

Project Duration: 10 Weeks (MVP)

Project Manager: [Name]

Start Date: [Week 1 Start Date]

Target Launch: [Week 10 End Date]

Methodology: Agile Scrum

- **Sprint Duration:** 1 week
 - **Total Sprints:** 10
 - **Daily Standups:** Yes (15 minutes)
 - **Sprint Reviews:** Every Friday
 - **Sprint Retrospectives:** Every Friday (after review)
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Sprint Planning (10 Sprints)

Sprint 0: Project Kickoff & Setup (Week 1)

Sprint Goals:

- Initialize project infrastructure
- Set up development environment
- Finalize requirements
- Create initial backlog

Tasks:

Day 1-2: Project Setup

Project Kickoff Meeting

- Team introductions
- Role assignments
- Communication channels (Slack, Jira)
- Review project scope and timeline

Development Environment Setup

- Install Visual Studio 2022
- Install SQL Server 2022
- Install Node.js 18+
- Setup Git repository (GitHub)
- Configure development branches (main, develop, feature/*)

Create Project Structure

- Backend: ASP.NET Core Web API solution
 - ElAnis.API
 - ElAnis.DataAccess
 - ElAnis.Entities
 - ElAnis.Utilities
- Frontend: React + TypeScript project
- Database: SQL Server database creation

Day 3-4: Requirements & Documentation

Finalize Requirements Document

- Functional requirements (50+ pages)
- Non-functional requirements

- User stories (50+ stories)

- Acceptance criteria

Create Database Design

- Entity Relationship Diagram (ERD)

- Database schema design

- Relationships and constraints

- Indexing strategy

API Specification

- OpenAPI/Swagger documentation template

- Endpoint definitions (50+ endpoints)

- Request/response schemas

- Authentication flow

Day 5: Design Kickoff

UI/UX Design

- Create design system

- Define color palette

- Typography selection

- Component library structure

- Wireframes for key pages (10+ pages)

Deliverables:

- Project repository setup

- Requirements document (final)

- Database ERD

- API specification draft

- Wireframes (low-fidelity)

Story Points: 21 **Team Capacity:** 40 hours/person

Sprint 1: Authentication & User Management (Week 2)

Sprint Goals:

- Implement user registration and login
- Setup JWT authentication
- Create user profile management
- Email verification with OTP

Backend Tasks:

Authentication Module

User Registration (8 points)

POST /api/auth/register

- Email validation
- Password hashing (bcrypt)
- OTP generation
- Send verification email

Email OTP Verification (5 points)

POST /api/auth/verify-otp

- Validate OTP
- Mark email as verified
- Generate JWT token

User Login (5 points)

POST /api/auth/login

- Validate credentials
- Check email verified
- Generate JWT + Refresh Token
- Return user profile

Password Reset (5 points)

`POST /api/auth/forgot-password`

`POST /api/auth/reset-password`

- Email reset link
- Validate reset token
- Update password

Refresh Token (3 points)

`POST /api/auth/refresh-token`

- Validate refresh token
- Issue new access token

User Profile Module

Get User Profile (2 points)

`GET /api/users/profile`

- Return current user data

Update User Profile (3 points)

`PUT /api/users/profile`

- Update name, phone, address
- Validation

Frontend Tasks:

Registration Page (5 points)

- Form with validation
- Email, password, name, phone
- Terms acceptance checkbox

- Submit and error handling

OTP Verification Page (3 points)

- 6-digit OTP input

- Resend OTP button

- Countdown timer

Login Page (3 points)

- Email/password form
- "Remember me" checkbox
- Forgot password link
- Social login buttons (future)

Forgot Password Flow (3 points)

- Email input page
 - Reset password page
 - Success confirmation
- User Profile Page** (5 points)
- Display user info
 - Edit profile form
 - Change password
 - Upload profile picture

Testing:

- Unit tests for auth endpoints (5 points)
- Integration tests (3 points)
- Frontend component tests (3 points)

Deliverables:

- Working authentication system
- User registration and login
- Email verification
- Password reset
- User profile management
- 80%+ test coverage

Story Points: 55 **Team Capacity:** 160 hours total

Sprint 2: Provider Application Module (Week 3)

Sprint Goals:

- Provider application submission
- Document upload functionality
- Admin application review workflow
- Email notifications

Backend Tasks:

Provider Application

Submit Application (8 points)

POST /api/providers/apply

- Personal information
- Professional details
- Experience, bio, hourly rate
- Status: Pending

Upload Documents (8 points)

POST /api/providers/upload-document

- National ID (front & back)
- Certificates
- CV/Resume
- File validation (type, size)
- Store in Azure Blob / Local

Get Application Status (2 points)

GET /api/providers/application/{userId}

- Return application status
- Show rejection reason if rejected

Admin Application Review

Get Pending Applications (3 points)

GET /api/admin/applications?status=Pending

- Paginated list
- Filter by status, date

View Application Details (2 points)

```
GET /api/admin/applications/{id}
```

- Full application data
- Display uploaded documents

Approve Application (5 points)

```
PUT /api/admin/applications/{id}/approve
```

- Create ServiceProviderProfile
- Set status: Approved
- Send approval email
- Link to User role update

Reject Application (3 points)

```
PUT /api/admin/applications/{id}/reject
```

- Set status: Rejected
- Store rejection reason
- Send rejection email

Notifications

Email Service Integration (5 points)

- Setup SendGrid / SMTP
- Email templates (approval, rejection)
- Send email function

Frontend Tasks:

Provider Application Form (13 points)

- Multi-step form (3 steps)
- Step 1: Personal info
- Step 2: Professional details
- Step 3: Document uploads
- Form validation
- Progress indicator

Document Upload UI (5 points)

- Drag-and-drop upload
- File preview
- Upload progress bar
- File size/type validation

Application Status Page (3 points)

- Show current status
- Display rejection reason
- Resubmit option

Admin Application List (5 points)

- Table view with filters
- Search functionality
- Status badges
- View details button

Admin Application Review (8 points)

- Display all application data
- View uploaded documents
- Approve/Reject buttons
- Rejection reason modal

Testing:

Backend tests (5 points)

Frontend tests (3 points)

File upload tests (3 points)

Deliverables:

- Provider application submission
- Document upload system
- Admin review workflow
- Email notifications

Story Points: 76 **Team Capacity:** 160 hours

Sprint 3: Categories & Pricing Management (Week 4)

Sprint Goals:

- Category CRUD operations
- Service pricing management
- Shift-based pricing system
- Admin pricing dashboard

Backend Tasks:

Category Management

Create Category (3 points)

POST /api/admin/categories

- Name, description, icon
- Display order
- Active status

Get All Categories (2 points)

GET /api/categories

- Public endpoint
- Return active categories

Update Category (2 points)

PUT /api/admin/categories/{id}

- Update category details

Delete Category (2 points)

DELETE /api/admin/categories/{id}

- Soft delete (set IsActive = false)

Service Pricing Management

Create Pricing (5 points)

`POST /api/admin/service-pricing`

- CategoryId, ShiftType
- PricePerShift
- Description
- Prevent duplicates

Bulk Create Pricing (8 points)

`POST /api/admin/service-pricing/bulk`

- Create multiple pricing records
- Category + all shift types
- Validation

Get Pricing by Category (3 points)

`GET /api/service-pricing/category/{categoryId}`

- Return all shift prices
- Public endpoint

Update Pricing (3 points)

`PUT /api/admin/service-pricing/{id}`

- Update price
- Store updated by user
- Track update timestamp

Get All Categories with Pricing (5 points)

`GET /api/service-pricing/categories-with-pricing`

- Return all categories
- Include pricing for each
- Public endpoint

Frontend Tasks:

Category Management Page (8 points)

- List all categories
- Add new category modal
- Edit category inline

- Delete confirmation

Pricing Management Page (13 points)

- Category selector
- Pricing grid (category × shift)
- Inline editing
- Bulk update capability
- Price history view

Category Display (Public) (3 points)

- Category cards on homepage
- Icons and descriptions
- Click to filter providers

Testing:

Backend tests (5 points)

Frontend tests (3 points)

Deliverables:

- Category management system
- Service pricing system
- Bulk pricing operations
- Admin pricing dashboard

Story Points: 65 **Team Capacity:** 160 hours

Sprint 4: Provider Profile & Availability (Week 5)

Sprint Goals:

- Provider profile management
- Working areas configuration
- Availability calendar system
- Provider dashboard

Backend Tasks:

Provider Profile

Get Provider Profile (3 points)

GET /api/providers/{id}

- Public endpoint
- Return profile with categories
- Include working areas
- Include availability (next 30 days)
- Include shift prices

Update Provider Profile (5 points)

PUT /api/providers/profile

- Update bio, experience
- Update hourly rate
- Upload profile picture

Working Areas

Add Working Area (3 points)

POST /api/providers/working-areas

- Governorate, city, district
- Multiple areas support

Get Working Areas (2 points)

GET /api/providers/{id}/working-areas

- Return all active areas

Update Working Area (2 points)

PUT /api/providers/working-areas/{id}

- Update area details

Delete Working Area (2 points)

`DELETE /api/providers/working-areas/{id}`

- Soft delete

Provider Availability

Set Availability (8 points)

`POST /api/providers/availability`

- Date, shift type
- Is available flag
- Bulk update (multiple dates)

Get Availability (3 points)

`GET /api/providers/{id}/availability`

?start=YYYY-MM-DD&end=YYYY-MM-DD

- Return availability range

Update Availability (3 points)

`PUT /api/providers/availability/{id}`

- Toggle availability
- Change shift type

Provider Categories

Assign Categories (3 points)

`POST /api/providers/categories`

- CategoryId array
- Link provider to categories

Frontend Tasks:

Provider Profile Page (Public) (13 points)

- Header with photo, name, rating
- About section (bio, experience)
- Categories badges

- Working areas list
- Pricing table (category × shift)
- Availability calendar (30 days)
- Reviews section
- "Request Service" button

Provider Dashboard (8 points)

- Statistics cards:
 - Completed jobs
 - Total earnings
 - Average rating
 - Pending requests
- Quick actions
- Recent bookings

Provider Profile Settings (8 points)

- Edit bio, experience
- Upload profile picture
- Update hourly rate
- Select categories

Working Areas Management (5 points)

- Add new area form
- List existing areas
- Edit/delete areas
- Governorate/city dropdowns

Availability Calendar (13 points)

- Month view calendar
- Click date to toggle availability
- Select shift type dropdown
- Color-coded availability:
 - Green: Available
 - Red: Not available

- Gray: Past dates
- Bulk select (week, month)
- Save changes

Testing:

- Backend tests (5 points)
- Frontend tests (5 points)

Deliverables:

- Provider profile system
- Working areas management
- Availability calendar
- Provider dashboard

Story Points: 89 **Team Capacity:** 160 hours

Sprint 5: Provider Discovery & Search (Week 6)

Sprint Goals:

- Provider search and filtering
- Advanced search functionality
- Provider listing page
- Search optimization

Backend Tasks:

Provider Search

- Search Providers** (13 points)

```
GET /api/providers  
?available=true  
&governorate=Cairo  
&city=Nasr City  
&categoryId=guid  
&search=name  
&page=1&pageSize=10
```

- Filter by:
 - Availability status
 - Location (governorate, city)
 - Category
 - Search term (name, bio, areas, categories)
- Pagination
- Sorting (rating, price, name)

Get Provider Detail (already done in Sprint 4)

Search Optimization (5 points)

- Database indexing
- Query optimization
- Caching strategy

Frontend Tasks:

Provider Search Page (21 points)

- **Filters Sidebar:**
 - Availability toggle
 - Governorate dropdown
 - City dropdown (dynamic based on governorate)
 - Category multi-select
 - Rating filter (min stars)
 - Price range slider

- **Search Bar:**

- Text search
 - Search suggestions
 - Clear button

- **Results Grid:**
 - Provider cards
 - Pagination
 - Loading skeletons
 - Empty state

- **Sorting:**
 - Sort dropdown (Rating, Price, Name)
 - Sort direction toggle

Provider Card Component (5 points)

- Profile picture
- Name, rating (stars)
- Categories (badges)
- Location
- "Available Now" indicator
- Hourly rate
- "View Profile" button

Search Performance (3 points)

- Debounced search
- Lazy loading
- Infinite scroll (optional)

Testing:

- Search functionality tests (5 points)
 Performance tests (3 points)

Deliverables:

- Provider search and filtering
- Advanced search UI
- Provider listing page
- Search optimization

Story Points: 55 **Team Capacity:** 160 hours

Sprint 6: Service Request Module (Week 7)

Sprint Goals:

- Service request creation
- Request workflow (pending → accepted/rejected)
- Provider request management
- Notification system

Backend Tasks:

Service Request Creation

Create Service Request (13 points)

POST /api/requests

- CategoryId, ProviderId
- ShiftType, PreferredDate
- Address, Governorate
- Description

Validation:

- Server-side price calculation
- Provider availability check
- Duplicate request prevention
- Create notification for provider

Get User Requests (3 points)

GET /api/requests/user

- Return user's requests
- Include provider, category details
- Order by date (newest first)

Get Provider Requests (3 points)

`GET /api/requests/provider/{providerId}`

?status=Pending

- Return provider's requests
- Filter by status
- Include user, category details

Get Request Details (2 points)

`GET /api/requests/{id}`

- Full request details
- Authorization check

Provider Response

Accept Request (8 points)

`PUT /api/requests/{id}/response`

Body: { status: "Accepted" }

- Update status: Accepted
- Set AcceptedAt timestamp
- Create notification for user
- Email notification

Reject Request (5 points)

`PUT /api/requests/{id}/response`

Body: { status: "Rejected", reason: "..." }

- Update status: Rejected
- Store rejection reason
- Create notification for user
- Email notification

Notification System

Create Notification (3 points)

POST /api/notifications

- UserId, Title, Message
- Type, ServiceRequestId

Get User Notifications (3 points)

GET /api/notifications

- ?unreadOnly=true
- Return user's notifications
- Mark as read option

Get Unread Count (2 points)

GET /api/notifications/unread-count

- Return count of unread

Mark as Read (2 points)

PUT /api/notifications/{id}/read

- Mark notification as read

Frontend Tasks:

Booking Modal/Page (13 points)

- **Step 1:** Select category (from provider)
- **Step 2:** Select shift type (show price)
- **Step 3:** Select date (from available dates)
- **Step 4:** Enter address
- **Step 5:** Add notes (optional)
- **Review:** Show summary
- Submit button
- Loading state
- Success/error messages

User Requests Page (13 points)

- List all user requests

- Filter by status tabs

- Request card:

- Provider info
- Service details
- Status badge
- Date, time
- Price
- View details button
- Pay button (if accepted)

- Provider Requests Page** (13 points)

- List incoming requests
- Filter by status
- Request card:
 - User info
 - Service details
 - Date, time, location
 - Price
 - Accept/Reject buttons

- Accept confirmation modal

- Reject modal with reason

- Notification Center** (8 points)

- Bell icon with unread count
- Dropdown notification list
- Mark as read on click
- Link to related request
- "View All" link
- Empty state

Testing:

- Backend tests (8 points)

Frontend tests (5 points)

Deliverables:

- Service request creation
- Request workflow
- Provider response system
- Notification system

Story Points: 104 **Team Capacity:** 160 hours

Sprint 7: Payment Integration (Week 8)

Sprint Goals:

- Payment gateway integration (Paymob)
- Payment processing flow
- Payment status tracking
- Refund mechanism

Backend Tasks:

Payment Integration

Paymob Integration (13 points)

- Setup Paymob account
- Generate API keys
- Create payment intent
- Handle payment callbacks
- Verify payment signature

Create Payment (8 points)

POST /api/payments

- ServiceRequestId
- Validate request status (must be Accepted)
- Validate amount (server-side)
- Create Payment entity
- Redirect to payment gateway

Payment Webhook (8 points)

POST /api/payments/webhook

- Receive payment callback
- Verify signature
- Update payment status
- Update request status (Paid)
- Send confirmation emails

Get Payment Status (2 points)

GET /api/payments/{requestId}

- Return payment status

Refund Payment (5 points)

POST /api/admin/payments/{id}/refund

- Admin only
- Process refund via gateway
- Update payment status
- Send refund confirmation

Frontend Tasks:

Payment Page (13 points)

- Display request summary
- Show payment amount
- Payment method selection:
 - Credit/Debit card
 - Vodafone Cash
 - Fawry

- Paymob iframe integration
- Terms and conditions checkbox
- "Pay Now" button
- Loading state

Payment Success Page (3 points)

- Success message
- Receipt details
- Download receipt button
- "View Request" link

- "Book Another" button

Payment Failed Page (3 points)

- Error message
- Retry payment button
- Contact support link

Payment Status in Requests (5 points)

- Show payment status badge
- Display "Pay Now" button if accepted
- Show receipt link if paid

Testing:

Payment integration tests (8 points)

Webhook tests (5 points)

Frontend payment flow tests (3 points)

Deliverables:

- Payment gateway integration
- Payment processing
- Payment webhook handling
- Refund system

Story Points: 76 **Team Capacity:** 160 hours

Sprint 8: Reviews & Rating System (Week 9)

Sprint Goals:

- Review submission after service
- Rating calculation
- Review display on provider profile
- Review moderation (admin)

Backend Tasks:

Review System

Submit Review (8 points)

```
POST /api/reviews
- ServiceRequestId
- Rating (1-5 stars)
- Comment (optional)
- Validate: request completed
- Validate: one review per request
- Update provider average rating
- Update provider total reviews
```

Get Provider Reviews (3 points)

```
GET /api/reviews/provider/{providerId}
?page=1&pageSize=10
- Return paginated reviews
- Order by date (newest first)
```

Get User Reviews (2 points)

```
GET /api/reviews/user
- Return user's submitted reviews
```

Calculate Average Rating (5 points)

- Automatic recalculation on review submit
- Update ServiceProviderProfile.AverageRating

- Update ServiceProviderProfile.TotalReviews

Admin Review Moderation (5 points)

GET /api/admin/reviews

PUT /api/admin/reviews/{id}/hide

- Get all reviews
- Hide inappropriate reviews
- Review flag system

Frontend Tasks:

Review Submission Form (8 points)

- Trigger after service completion
- Star rating input (1-5)
- Comment textarea
- Character counter (max 1000)
- Anonymous option checkbox
- Submit button
- Success confirmation

Provider Reviews Section (8 points)

- Display on provider profile
- Average rating (large stars)
- Total reviews count
- Rating distribution chart
- Reviews list (paginated)
- Load more button

Review Card Component (3 points)

- Reviewer name/avatar
- Star rating
- Review text
- Date posted
- "Helpful" button (future)

User Reviews Page (5 points)

- List user's submitted reviews
- Edit review (within 7 days)

- View associated service request

Admin Review Moderation (5 points)

- List all reviews
- Filter by rating, date
- Hide review button
- View associated request/provider

Testing:

Backend tests (5 points)

Frontend tests (3 points)

Deliverables:

- Review submission system
- Rating calculation
- Review display
- Admin moderation

Story Points: 60 **Team Capacity:** 160 hours

Sprint 9: Admin Dashboard & Reporting (Week 10)

Sprint Goals:

- Admin dashboard with metrics
- User management
- Provider management
- Booking management
- Reports and analytics

Backend Tasks:

Dashboard Metrics

Get Dashboard Stats (8 points)

GET /api/admin/dashboard/stats

- Total users (active, inactive)
- Total providers (approved, pending, rejected)
- Total bookings (this month, all time)
- Total revenue (this month, all time)
- Average platform rating
- Pending applications count

Get Revenue Chart Data (5 points)

GET /api/admin/reports/revenue

?period=month&year=2025

- Revenue by day/week/month
- Revenue by category

Get Booking Chart Data (5 points)

GET /api/admin/reports/bookings

?period=month

- Bookings over time
- Booking status breakdown

User Management

Get All Users (3 points)

GET /api/admin/users

?page=1&pageSize=20&search=

- Paginated user list
- Search by name, email

Get User Details (2 points)

GET /api/admin/users/{id}

- Full user details
- Booking history

Suspend/Activate User (3 points)

`PUT /api/admin/users/{id}/suspend`

`PUT /api/admin/users/{id}/activate`

- Toggle user status

Provider Management

Get All Providers (3 points)

`GET /api/admin/providers`

?status=Approved&page=1

- Filter by status
- Search by name

Suspend/Activate Provider (3 points)

`PUT /api/admin/providers/{id}/suspend`

- Suspend provider account

- Notify provider

Booking Management

Get All Bookings (3 points)

`GET /api/admin/requests`

?status=&page=1

- All service requests

- Filter by status, date, provider

Cancel Booking (3 points)

`PUT /api/admin/requests/{id}/cancel`

- Admin cancel booking

- Trigger refund if paid

Frontend Tasks:

Admin Dashboard Page (21 points)

• Metrics Cards:

- Total users

- Total providers
 - Total bookings
 - Total revenue
 - Average rating
 - Pending applications
- **Charts:**
 - Revenue over time (line chart)
 - Bookings over time (area chart)
 - Revenue by category (bar chart)
 - Booking status (pie chart)
 - **Recent Activity:**
 - Latest bookings
 - New applications
 - Recent reviews
- User Management Page** (8 points)
- User list table
 - Search and filters
 - View user details modal
 - Suspend/activate buttons
 - Pagination
- Provider Management Page** (8 points)
- Provider list table
 - Filter by status
 - View provider details
 - Suspend/activate
 - Performance metrics
- Booking Management Page** (8 points)
- Bookings list table
 - Status filters
 - View booking details

- Cancel booking

- Refund button

Reports Page (8 points)

- Date range selector
- Export to CSV/Excel
- Revenue report
- Provider performance report
- User activity report

Testing:

Backend tests (5 points)

Frontend tests (5 points)

Deliverables:

- Admin dashboard
- User management
- Provider management
- Booking management
- Reports and analytics

Story Points: 102 **Team Capacity:** 160 hours

Sprint 10: Testing, Bug Fixes & Deployment (Week 11)

Sprint Goals:

- Comprehensive testing (unit, integration, E2E)
- Bug fixing
- Performance optimization
- Production deployment
- Documentation

Tasks:

