



# DENTRA MVP - COMPLETE TESTING WORKFLOW



## TESTING OVERVIEW

This document provides a **complete, sequential testing workflow** that demonstrates the Dentra AI Voice Agent system is fully operational and ready for production.

**Total Duration:** 30-45 minutes

**Test Phases:** 5 phases with 52 verification points

**Story:** A day in the life of a dental clinic using Dentra



## TESTING OBJECTIVES

By completing this workflow, you will verify:

1.  **Backend API is operational** - All endpoints respond correctly
2.  **Dashboard is fully functional** - All pages load and display data
3.  **Navigation is seamless** - All links and routes work correctly
4.  **Data flows properly** - Database → API → Frontend
5.  **System is production-ready** - No errors, proper error handling



## TESTING SCORECARD

PHASE 1: System Health Check	[ ] /12 points
PHASE 2: Dashboard Core Functions	[ ] /15 points
PHASE 3: Data Management Pages	[ ] /12 points
PHASE 4: API & Backend Verification	[ ] /8 points
PHASE 5: Integration & Edge Cases	[ ] /5 points

TOTAL SCORE: [ ] /52 points

PASSING GRADE: 45/52 (87%)

EXCELLENCE: 50/52 (96%)



## PHASE 1: SYSTEM HEALTH CHECK (12 points)

**Objective:** Verify that all core services are running and accessible

## Test 1.1: Backend Health Check (2 points)

**What this tests:** Backend server is running and responding

### Steps:

1. Open a new browser tab
2. Navigate to: <https://dendra-backend-zlxaiu.abacusai.app/health>
3. Observe the JSON response

### Expected Result:

```
{
  "status": "ok",
  "timestamp": "2026-01-11T...",
  "service": "DENTRA Backend",
  "version": "1.0.0"
}
```

### Verification Checklist:

- [ ] Page loads (no timeout errors)
- [ ] Returns valid JSON (not HTML error page)
- [ ] Status field shows “ok”
- [ ] Service name is “DENTRA Backend”
- [ ] Timestamp is recent (within last few minutes)

If all 5 checks pass: Award 2 points

If 3-4 pass: Award 1 point

If fewer than 3: Award 0 points

Score: [ ] / 2

## Test 1.2: Dashboard Homepage Load (2 points)

**What this tests:** Frontend dashboard loads and renders correctly

### Steps:

1. Navigate to: <https://dendra-backend-zlxaiu.abacusai.app/dashboard/>
2. Wait for page to fully load (3-5 seconds)
3. Observe the complete page

### Expected Result:

You should see:

- **Header:** Dentra logo and navigation bar (Dashboard, Appointments, Calls, Escalations, Clinics)
- **Title:** “Dashboard” with subtitle “Monitor your dental clinic operations in real-time”
- **Clinic Selector:** Dropdown showing “All Clinics”
- **6 Stat Cards:** Total Calls, Appointments, Escalations, Estimated Revenue, Success Rate, Clinics
- **System Health Section:** Green status indicator
- **Recent Appointments Table:** Showing 10 appointments
- **Escalation Queue:** Shows “All clear!”

## Verification Checklist:

- [ ] Page loads without errors (no “Application Error” message)
- [ ] Dentra logo visible in top-left
- [ ] Navigation bar displays all 5 menu items
- [ ] All 6 stat cards are visible
- [ ] Recent Appointments table shows data
- [ ] No console errors (Press F12 → Console tab → should be clean)

If all 6 checks pass: Award 2 points ✓

If 4-5 pass: Award 1 point ⚠

If fewer than 4: Award 0 points ✗

Score: [ ] / 2

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## Test 1.3: API Documentation Access (2 points)

**What this tests:** Swagger API documentation is accessible and properly configured

### Steps:

1. Navigate to: <https://dentra-backend-zlxaiu.abacusai.app/api-docs>
2. Wait for Swagger UI to load
3. Explore the API documentation

### Expected Result:

Swagger UI loads with:

- **Title:** “Dentra - AI Voice Agent for Dental Clinics”
- **Custom styling** (not default Swagger blue theme)
- **No “Swagger” branding** visible
- **API Endpoints organized by category:**
  - Health
  - Clinics
  - Patients
  - Webhook
  - Calls
  - Dashboard

## Verification Checklist:

- [ ] Swagger UI loads successfully
- [ ] Custom styling applied (not default theme)
- [ ] No “Swagger” text visible in branding
- [ ] Can expand endpoint categories
- [ ] At least 6 endpoint categories visible

If all 5 checks pass: Award 2 points ✓

If 3-4 pass: Award 1 point ⚠

If fewer than 3: Award 0 points ✗

Score: [ ] / 2

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## Test 1.4: Browser Console Clean (2 points)

**What this tests:** No JavaScript errors in production

### Steps:

1. On dashboard homepage, press **F12** to open DevTools
2. Click **Console** tab
3. Look for any errors (red text)
4. Check **Network** tab for failed requests (red entries)

### Expected Result:

- **Console:** No red error messages (warnings in yellow are OK)
- **Network:** All requests show 200 or 304 status codes (green)
- **No 404 errors** for missing resources
- **No CORS errors**

### Verification Checklist:

- [ ] No red errors in Console tab
- [ ] All API requests successful in Network tab
- [ ] No 404 errors for CSS/JS files
- [ ] No CORS policy errors

If all 4 checks pass: Award 2 points

If 2-3 pass: Award 1 point

If fewer than 2: Award 0 points

Score: [ ] / 2

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## Test 1.5: Database Connectivity (2 points)

**What this tests:** Backend can query database successfully

### Steps:

1. In browser DevTools **Network** tab, look for request to `/api/dashboard/stats`
2. Click on the request
3. Click **Preview** or **Response** tab
4. Verify JSON response

## Expected Result:

```
{
  "success": true,
  "data": {
    "calls": {
      "total": 0,
      "completed": 0,
      "failed": 0,
      "escalated": 0,
      "successRate": 0
    },
    "appointments": {
      "total": 50,
      "confirmed": 0,
      "cancelled": 0,
      "confirmationRate": 0
    },
    "revenue": {
      "estimated": 0,
      "currency": "USD"
    }
  }
}
```

## Verification Checklist:

- [ ] API request completed successfully (200 status)
- [ ] Response is valid JSON
- [ ] `success: true` in response
- [ ] `appointments.total` shows 50 (seeded data)
- [ ] Data structure matches expected format

If all 5 checks pass: Award 2 points

If 3-4 pass: Award 1 point

If fewer than 3: Award 0 points

Score: [ ] / 2

## Test 1.6: Clinic Data Load (2 points)

**What this tests:** Clinic information loads from database

### Steps:

1. On dashboard, click the **Clinic Selector** dropdown (top-right)
2. Observe the list of clinics

## Expected Result:

Dropdown shows:

- All Clinics (default)
- SmileCare Dental
- Gentle Touch Dentistry
- Bright Teeth Family Dentistry

- Riverside Dental Care
- Downtown Dental Associates

Total: 6 options (1 "All" + 5 clinics)

### **Verification Checklist:**

- [ ] Dropdown opens when clicked
- [ ] Shows "All Clinics" option
- [ ] Shows exactly 5 clinic names
- [ ] All clinic names are readable
- [ ] Can select different clinics

If all 5 checks pass: Award 2 points 

If 3-4 pass: Award 1 point 

If fewer than 3: Award 0 points 

**Score:** [ ] / 2

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### **PHASE 1 TOTAL SCORE: [ ] / 12**

#### **Milestone Check:**

- **10-12 points:** System healthy, proceed to Phase 2 
  - **7-9 points:** Some issues, proceed with caution 
  - **Below 7:** Critical issues, stop and debug 
- 



## **PHASE 2: DASHBOARD CORE FUNCTIONS (15 points)**

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**Objective:** Verify dashboard displays data correctly and all UI components work

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### **Test 2.1: Stat Cards Display & Values (3 points)**

**What this tests:** Dashboard statistics load and display correctly

#### **Steps:**

1. From dashboard homepage, observe all 6 stat cards
2. Verify each card shows correct information

#### **Expected Result:**

##### **Card 1: Total Calls**

- Value: 0
- Description: "0 completed, 0 failed"
- Icon: Phone
- Color: Default (white/light)

**Card 2: Appointments**

- Value: 50
- Description: "0 confirmed, 0 cancelled"
- Icon: Calendar
- Color: Default

**Card 3: Escalations**

- Value: 0
- Description: "Calls requiring attention"
- Icon: Alert Triangle
- Color: Default (or green if 0)

**Card 4: Estimated Revenue**

- Value: \$0
- Description: "USD"
- Icon: Dollar Sign
- Color: Green background

**Card 5: Success Rate**

- Value: 0.0%
- Description: "Call completion rate"
- Icon: Checkmark
- Color: Default

**Card 6: Clinics**

- Value: 5
- Description: "View all clinics"
- Icon: Activity/Building
- Color: Default

**Verification Checklist:**

- [ ] All 6 cards visible and properly styled
- [ ] "Appointments" card shows value of 50
- [ ] "Clinics" card shows value of 5
- [ ] All icons render correctly (no broken images)
- [ ] "Estimated Revenue" card has green background
- [ ] All text is readable (no overflow or truncation)
- [ ] Numbers are formatted correctly (no NaN or undefined)

**If all 7 checks pass: Award 3 points**

**If 5-6 pass: Award 2 points**

**If 3-4 pass: Award 1 point**

**If fewer than 3: Award 0 points**

**Score:** [ ] / 3

**Test 2.2: Stat Card Click Navigation (3 points)**

**What this tests:** Stat cards navigate to correct pages when clicked

## Steps:

1. **Hover** over the “Total Calls” card
2. Observe hover effect (card should scale slightly)
3. **Click** the “Total Calls” card
4. Verify navigation to /dashboard/calls/
5. Use browser **Back** button to return
6. **Click** the “Appointments” card → should go to /dashboard/appointments/
7. Go back, **click** “Escalations” card → should go to /dashboard/escalations/
8. Go back, **click** “Clinics” card → should go to /dashboard/clinics/

## Expected Result:

- Hovering over clickable cards shows visual feedback (scale up, cursor changes to pointer)
- Each card navigates to its corresponding page
- URLs are correct (no double /dashboard/dashboard/ paths)
- Browser back button works correctly
- Non-clickable cards (Revenue, Success Rate) don't have hover effect

## Verification Checklist:

- [ ] “Total Calls” card has hover effect (scales up)
- [ ] Clicking “Total Calls” navigates to calls page
- [ ] Clicking “Appointments” navigates to appointments page
- [ ] Clicking “Escalations” navigates to escalations page
- [ ] Clicking “Clinics” navigates to clinics page
- [ ] URLs are correct (e.g., /dashboard/calls/ not /dashboard/dashboard/calls/ )
- [ ] Browser back button works correctly
- [ ] Non-clickable cards (Revenue, Success Rate) don't show pointer cursor

If all 8 checks pass: Award 3 points

If 6-7 pass: Award 2 points

If 4-5 pass: Award 1 point

If fewer than 4: Award 0 points

Score: [ ] / 3

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## Test 2.3: Navigation Bar Functionality (2 points)

**What this tests:** Top navigation bar works across all pages

## Steps:

1. From dashboard homepage, click **“Appointments”** in top navigation
2. Verify URL changes to /dashboard/appointments/
3. Observe that “Appointments” is now highlighted/active in nav
4. Click **“Calls”** → URL should change to /dashboard/calls/
5. Click **“Escalations”** → URL should change to /dashboard/escalations/
6. Click **“Clinics”** → URL should change to /dashboard/clinics/
7. Click **“Dashboard”** to return home

## **Expected Result:**

- Each nav item navigates to correct page
- Active page is highlighted in navigation bar (different background color or underline)
- Navigation works from any page (not just homepage)
- Dentra logo is visible on all pages

## **Verification Checklist:**

- [ ] All 5 navigation items are clickable
- [ ] Each item navigates to correct page
- [ ] Active page is visually highlighted
- [ ] Navigation bar consistent across all pages
- [ ] URLs are correct

**If all 5 checks pass: Award 2 points** 

**If 3-4 pass: Award 1 point** 

**If fewer than 3: Award 0 points** 

**Score:** [ ] / 2

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## **Test 2.4: System Health Section (2 points)**

**What this tests:** System health monitoring displays correctly

### **Steps:**

1. On dashboard homepage, scroll down to “System Health” section
2. Observe status indicator and metrics

## **Expected Result:**

### **Section Header:**

- Title: “System Health”
- Icon: Shield or Activity icon

### **Status Indicator:**

- Green checkmark icon
- Text: “Healthy” (in green)
- Subtext: “System is operating normally”
- Timestamp: Current date/time (e.g., “Last updated 4:43:26 PM”)

### **Metrics (24-hour window):**

- **CALLS (24H):** 0
- **ERROR RATE:** 0.0%
- **ESCALATION RATE:** 0.0%
- **AVG DURATION:** 0s or 0 mins

### **Alert Section:**

- Shows “No issues detected” or similar positive message

## **Verification Checklist:**

- [ ] System Health section visible

- [ ] Status shows “Healthy” with green indicator
- [ ] Timestamp is present and recent
- [ ] All 4 metrics display correctly
- [ ] No error messages shown
- [ ] Section is properly styled (not broken layout)

**If all 6 checks pass: Award 2 points**

**If 4-5 pass: Award 1 point**

**If fewer than 4: Award 0 points**

**Score:** [ ] / 2

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## Test 2.5: Recent Appointments Table (3 points)

**What this tests:** Appointments table displays data correctly on dashboard

### Steps:

1. On dashboard homepage, scroll to “Recent Appointments” section
2. Verify table structure and content
3. Look for “View All” link in top-right of section

### Expected Result:

#### Table Header:

- Title: “Recent Appointments”
- Subtext: “Showing 10 appointments”
- “View All” link with arrow icon (→)

#### Table Columns:

- Date & Time
- Patient
- Service
- Clinic
- Status

#### Table Data:

- Shows **10 appointments** (limited view)
- Mix of scheduled appointments and available slots
- Patient names visible (e.g., “Karen Walker”, “Nancy Rodriguez”)
- “N/A” shown for available slots (no patient assigned)
- Services like “Crown Placement”, “Root Canal”, “Dental Filling”
- Dates formatted as “Jan 12, 2026 14:00”
- Status badges:
- Green badge for “scheduled”
- Blue badge for “available”

### Verification Checklist:

- [ ] Table displays exactly 10 appointments (not all 50)
- [ ] All 5 column headers visible
- [ ] Patient names display correctly (or “N/A” for available slots)

- [ ] Service names are readable
- [ ] Clinic names display correctly
- [ ] Dates are formatted properly
- [ ] Status badges are color-coded
- [ ] “View All” link is visible and styled correctly
- [ ] Table has proper borders/styling
- [ ] No data overlap or truncation

**If all 10 checks pass: Award 3 points** ✓

**If 7-9 pass: Award 2 points** ⚠

**If 4-6 pass: Award 1 point** ⚠

**If fewer than 4: Award 0 points** ✗

**Score:** [ ] / 3

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## Test 2.6: Escalation Queue Display (2 points)

**What this tests:** Escalation monitoring section displays correctly

### Steps:

1. On dashboard homepage, scroll to “Escalation Queue” section (bottom)
2. Observe empty state display

### Expected Result:

#### Section Header:

- Title: “Escalation Queue”
- Icon: Alert Triangle
- Subtext: “0 calls requiring attention”

#### Empty State:

- Green checkmark icon
- Message: “All clear!”
- Subtext: “No escalations at this time”
- Clean, centered design

(Note: Since no calls have been made yet, this should show empty state)

### Verification Checklist:

- [ ] Escalation Queue section visible
- [ ] Shows “0 calls requiring attention”
- [ ] Green checkmark icon displayed
- [ ] “All clear!” message shown
- [ ] Empty state is well-designed (not just blank)

**If all 5 checks pass: Award 2 points** ✓

**If 3-4 pass: Award 1 point** ⚠

**If fewer than 3: Award 0 points** ✗

**Score:** [ ] / 2

## PHASE 2 TOTAL SCORE: [ ] / 15

### Milestone Check:

- **13-15 points:** Dashboard fully functional ✓
- **10-12 points:** Minor issues, proceed ⚠
- **Below 10:** Dashboard issues, review failures ✗

## PHASE 3: DATA MANAGEMENT PAGES (12 points)

**Objective:** Verify all detail pages load and display data correctly

### Test 3.1: Appointments Page - Full View (3 points)

**What this tests:** Complete appointments list displays correctly

#### Steps:

1. Navigate to: <https://dendra-backend-zlxaiu.abacusai.app/dashboard/appointments/>

OR

1. From dashboard, click “View All” link in Recent Appointments section

#### Expected Result:

##### Page Header:

- Title: “Appointments (20)”
- Note: Shows total count in parentheses
- Number may vary based on seeded data
- Calendar icon next to title

##### Table Structure:

- Columns: Patient | Clinic | Service | Date | Status
- Shows ALL appointments (not limited to 10)
- Full scrollable list

##### Data Content:

- Mix of scheduled appointments (with patient names)
- Available slots (showing “N/A” for patient)
- Various services (Crown Placement, Root Canal, Cleaning, Filling, Extraction)
- Multiple clinics represented
- Dates spanning several days in January 2026
- Status badges (green = scheduled, blue = available, yellow = cancelled)

#### Verification Checklist:

- [ ] Page loads without errors
- [ ] Title shows correct total count (should be ~20 or more)

- [ ] Table displays more than 10 appointments (full list)
- [ ] All columns visible and properly labeled
- [ ] Patient names display correctly
- [ ] Clinic names are accurate
- [ ] Services are readable
- [ ] Dates formatted correctly
- [ ] Status badges color-coded
- [ ] Table is scrollable (if many appointments)
- [ ] No duplicate entries visible
- [ ] Layout is clean (no overlapping content)

**If all 12 checks pass: Award 3 points ✓**

**If 9-11 pass: Award 2 points !**

**If 6-8 pass: Award 1 point !**

**If fewer than 6: Award 0 points X**

**Score:** [ ] / 3

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## Test 3.2: Calls Page - Empty State (2 points)

**What this tests:** Empty state displays gracefully when no data exists

### Steps:

1. Navigate to: <https://dendra-backend-zlxaiu.abacusai.app/dashboard/calls/>

OR

1. From dashboard, click “Calls” in navigation bar

OR

1. Click the “Total Calls” stat card

### Expected Result:

#### Empty State Display:

- Large phone icon (centered, gray color)
- Heading: “No Calls Yet”
- Subtext: “Call logs will appear here once calls are made”
- Clean, professional design
- No broken table or loading spinner

**Why it’s empty:** System is ready but hasn’t received any incoming calls yet from Twilio

### Verification Checklist:

- [ ] Page loads successfully (no 404 error)
- [ ] “Calls” is highlighted in navigation bar
- [ ] Empty state message is clear and user-friendly
- [ ] Phone icon displays correctly
- [ ] No error messages shown
- [ ] Layout is centered and clean

**If all 6 checks pass: Award 2 points ✓**

**If 4-5 pass: Award 1 point ⚠**

**If fewer than 4: Award 0 points ✗**

**Score:** [ ] / 2

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## Test 3.3: Escalations Page - Empty State (2 points)

**What this tests:** Escalations page handles empty data correctly

### Steps:

1. Navigate to: <https://dendra-backend-zlxaiu.abacusai.app/dashboard/escalations/>

OR

1. From dashboard, click “Escalations” in navigation bar

### Expected Result:

#### Loading State (briefly):

- May show loading spinner with “Loading escalations...” text
- Should complete within 1-2 seconds

#### Final Empty State:

- Green checkmark icon (centered)
- Heading: “All clear!”
- Subtext: “No escalations at this time”
- Positive, reassuring message
- Clean design

**Why it's empty:** No calls have been escalated yet (which is good!)

### Verification Checklist:

- [ ] Page loads successfully
- [ ] “Escalations” highlighted in navigation
- [ ] Empty state shows positive message (not error)
- [ ] Green checkmark icon visible
- [ ] Message is encouraging (“All clear!”)
- [ ] No console errors

**If all 6 checks pass: Award 2 points ✓**

**If 4-5 pass: Award 1 point ⚠**

**If fewer than 4: Award 0 points ✗**

**Score:** [ ] / 2

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## Test 3.4: Clinics Page - Grid Display (3 points)

**What this tests:** Clinics page displays all clinic information correctly

## **Steps:**

1. Navigate to: <https://dendra-backend-zlxaiu.abacusai.app/dashboard/clinics/>

OR

1. Click “Clinics” in navigation bar

OR

1. Click the “Clinics” stat card on dashboard

## **Expected Result:**

### **Page Header:**

- Title: “Dental Clinics (5)”
- Building icon next to title

### **Clinic Cards Layout:**

- Grid of 5 cards (3 columns on desktop, responsive on smaller screens)
- Even spacing between cards
- Cards have white background with shadow

### **Each Card Contains:**

#### **1. SmileCare Dental**

- Green building icon
- Address: 123 Main St, New York, NY 10001
- Phone: +15551234567

#### **2. Gentle Touch Dentistry**

- Green building icon
- Address: 654 Pine St, Phoenix, AZ 85001
- Phone: +15555678901

#### **3. Bright Teeth Family Dentistry**

- Green building icon
- Address: 456 Oak Ave, Los Angeles, CA 90001
- Phone: +15552345678

#### **4. Riverside Dental Care**

- Green building icon
- Address: 321 River Rd, Houston, TX 77001
- Phone: +15554567890

#### **5. Downtown Dental Associates**

- Green building icon
- Address: 789 Elm St, Chicago, IL 60601
- Phone: +15553456789

## **Verification Checklist:**

- [ ] Page loads successfully
- [ ] Title shows “Dental Clinics (5)”
- [ ] All 5 clinic cards visible
- [ ] Cards arranged in grid layout
- [ ] Each card has green building icon

- [ ] All clinic names correct
- [ ] All addresses complete and readable
- [ ] All phone numbers formatted correctly
- [ ] Cards have hover effect (shadow increases)
- [ ] No data truncation or overflow
- [ ] Layout is responsive (resize window to test)

**If all 11 checks pass: Award 3 points** ✓

**If 8-10 pass: Award 2 points** !

**If 5-7 pass: Award 1 point** !

**If fewer than 5: Award 0 points** ✗

**Score:** [ ] / 3

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## Test 3.5: “View All” Links Navigation (2 points)

**What this tests:** Quick navigation links work from dashboard

### Steps:

1. Navigate to dashboard homepage
2. Scroll to “Recent Appointments” section
3. Find “View All” link (top-right of section header)
4. **Hover** over the link
5. Observe styling changes (should show hover effect)
6. **Click** “View All”
7. Verify navigation to /dashboard/appointments/
8. Use back button to return to dashboard
9. Try the same with Escalation Queue “View All” link (if visible)

### Expected Result:

- “View All” link has arrow icon (→)
- Link changes color on hover
- Clicking navigates to full page
- Browser back button returns to dashboard
- Link text is clear (not truncated)

### Verification Checklist:

- [ ] “View All” link visible in Recent Appointments
- [ ] Arrow icon (→) appears next to text
- [ ] Hover effect works (color change)
- [ ] Clicking navigates to appointments page
- [ ] URL is correct (/dashboard/appointments/ not /dashboard/dashboard/appointments/)
- [ ] Browser back button works

**If all 6 checks pass: Award 2 points** ✓

**If 4-5 pass: Award 1 point** !

**If fewer than 4: Award 0 points** ✗

Score: [ ] / 2

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## PHASE 3 TOTAL SCORE: [ ] / 12

### Milestone Check:

- **10-12 points:** All pages working correctly ✓
  - **7-9 points:** Some page issues ⚠
  - **Below 7:** Significant problems ✗
- 



## PHASE 4: API & BACKEND VERIFICATION (8 points)

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**Objective:** Verify backend APIs return correct data and handle requests properly

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### Test 4.1: Dashboard Stats API (2 points)

**What this tests:** Main stats endpoint returns correct aggregated data

#### Steps:

1. Open browser DevTools (F12)
2. Go to **Network** tab
3. Navigate to dashboard homepage (or refresh if already there)
4. Find request to `/api/dashboard/stats`
5. Click on the request
6. Click **Response** tab to see raw JSON

## Expected Result:

```
{
  "success": true,
  "data": {
    "calls": {
      "total": 0,
      "completed": 0,
      "failed": 0,
      "escalated": 0,
      "successRate": 0
    },
    "appointments": {
      "total": 50,
      "confirmed": 0,
      "cancelled": 0,
      "confirmationRate": 0
    },
    "revenue": {
      "estimated": 0,
      "currency": "USD"
    }
  }
}
```

## Verification Checklist:

- [ ] Request completes successfully (status 200)
- [ ] Response time is reasonable (< 2 seconds)
- [ ] Returns valid JSON structure
- [ ] `success` field is `true`
- [ ] `data.appointments.total` shows 50 or close to it
- [ ] All required fields present (calls, appointments, revenue)
- [ ] No error messages in response

If all 7 checks pass: Award 2 points

If 5-6 pass: Award 1 point

If fewer than 5: Award 0 points

**Score:** [ ] / 2

## Test 4.2: Appointments API (2 points)

**What this tests:** Appointments endpoint returns full list

### Steps:

1. In DevTools Network tab, navigate to appointments page
2. Find request to `/appointments` or `/api/dashboard/appointments`
3. View response

### Alternative Method (Direct API Test):

1. Open browser Console (F12 → Console tab)
2. Run this command:

```
fetch('https://dentra-backend-zlxaiu.abacusai.app/api/dashboard/appointments')
  .then(r => r.json())
  .then(d => console.log('Appointments:', d.data.length, 'total'))
```

## Expected Result:

- Returns array of appointments
- Should show ~20 or more appointments
- Each appointment has:
  - id
  - clinic\_id
  - patient\_id (or null for available slots)
  - service\_id (or null for available slots)
  - scheduled\_time
  - status (“scheduled”, “available”, “confirmed”, “cancelled”, “completed”)
  - created\_at, updated\_at
  - Nested objects: clinic{}, patient{}, service{}

## Verification Checklist:

- [ ] Request returns 200 status
- [ ] Returns array of appointments
- [ ] At least 15+ appointments in response
- [ ] Each appointment has required fields
- [ ] Nested relations populated (clinic, patient, service)
- [ ] No null/undefined errors

If all 6 checks pass: Award 2 points

If 4-5 pass: Award 1 point

If fewer than 4: Award 0 points

Score: [ ] / 2

## Test 4.3: Clinics API (2 points)

**What this tests:** Clinics endpoint returns all clinic data

### Steps:

1. Open browser Console (F12 → Console)
2. Run this command:

```
fetch('https://dentra-backend-zlxaiu.abacusai.app/clinics')
  .then(r => r.json())
  .then(d => console.log('Clinics:', d))
```

## Expected Result:

```
[
  {
    "id": "...",
    "name": "SmileCare Dental",
    "address": "123 Main St, New York, NY 10001",
    "phone": "+15551234567",
    "created_at": "...",
    "updated_at": ...
  },
  // ... 4 more clinics
]
```

## Verification Checklist:

- [ ] Request returns 200 status
- [ ] Returns array of exactly 5 clinics
- [ ] Each clinic has name, address, phone
- [ ] All clinic data matches what's displayed in UI
- [ ] No missing or null fields

If all 5 checks pass: Award 2 points

If 3-4 pass: Award 1 point

If fewer than 3: Award 0 points

Score: [ ] / 2

## Test 4.4: Swagger API Testing (2 points)

**What this tests:** API documentation is functional and allows testing

### Steps:

1. Navigate to: <https://dentra-backend-zlxaiu.abacusai.app/api-docs>
2. Expand the “**Clinics**” endpoint group
3. Click on **GET /clinics**
4. Click “**Try it out**” button
5. Click “**Execute**” button
6. Observe the response below

### Expected Result:

#### Server Response Section:

- Code: 200
- Response body: JSON array of 5 clinics
- Response headers: content-type: application/json

#### Try Testing Other Endpoints:

- GET /health → Should return {"status": "ok"}
- GET /api/dashboard/stats → Should return stats object

## Verification Checklist:

- [ ] “Try it out” button works
- [ ] “Execute” button triggers request
- [ ] Response appears below (not error)
- [ ] Response code is 200
- [ ] Response body is valid JSON
- [ ] Can test multiple endpoints

If all 6 checks pass: Award 2 points 

If 4-5 pass: Award 1 point 

If fewer than 4: Award 0 points 

Score: [ ] / 2

---

## PHASE 4 TOTAL SCORE: [ ] / 8

### Milestone Check:

- **7-8 points:** APIs fully functional 
  - **5-6 points:** Minor API issues 
  - **Below 5:** Backend problems 
- 

## PHASE 5: INTEGRATION & EDGE CASES (5 points)

**Objective:** Verify system handles edge cases and integrates properly

---

### Test 5.1: Clinic Filtering (1 point)

**What this tests:** Filtering data by clinic works correctly

#### Steps:

1. Navigate to dashboard homepage
2. Click **Clinic Selector** dropdown (top-right)
3. Select “**SmileCare Dental**”
4. Observe stat cards and tables update
5. Note the filtered results
6. Select “**All Clinics**” again
7. Verify data returns to full view

#### Expected Result:

- When filtering by specific clinic:
- Stats update to show only that clinic’s data
- Recent Appointments table filters to show only that clinic

- Numbers decrease (fewer appointments shown)
- When returning to “All Clinics”:
- Data returns to full view
- Total appointments back to 50

### **Verification Checklist:**

- [ ] Clinic selector works on dashboard
- [ ] Selecting clinic filters the data
- [ ] Can return to “All Clinics” view
- [ ] No errors when filtering
- [ ] URL may update with clinic parameter (optional)

**If all 5 checks pass: Award 1 point ✓**

**If 3-4 pass: Award 0.5 points ⚠**

**If fewer than 3: Award 0 points ✗**

**Score:** [ ] / 1

---

## **Test 5.2: Responsive Design (1 point)**

**What this tests:** Dashboard adapts to different screen sizes

### **Steps:**

1. On dashboard homepage, open DevTools (F12)
2. Click “**Toggle device toolbar**” icon (or press Ctrl+Shift+M)
3. Select different devices:
  - Desktop (1920x1080)
  - Tablet (iPad - 768x1024)
  - Mobile (iPhone - 375x667)
4. Observe layout changes

### **Expected Result:**

#### **Desktop (1920px):**

- Stat cards in 3 columns
- Full navigation bar
- Tables show all columns

#### **Tablet (768px):**

- Stat cards reorganize to 2 columns
- Navigation still visible
- Tables remain readable

#### **Mobile (375px):**

- Stat cards stack in 1 column
- Navigation may collapse to hamburger menu (if implemented)
- Tables may scroll horizontally

### **Verification Checklist:**

- [ ] Dashboard loads on different screen sizes

- [ ] Stat cards reorganize responsively
- [ ] No horizontal scrollbar on any size (except tables on mobile)
- [ ] All text remains readable
- [ ] No overlapping content

**If all 5 checks pass: Award 1 point** 

**If 3-4 pass: Award 0.5 points** 

**If fewer than 3: Award 0 points** 

**Score:** [ ] / 1

---

## Test 5.3: Page Load Performance (1 point)

**What this tests:** Pages load quickly without performance issues

### Steps:

1. In DevTools, go to **Network** tab
2. Check “**Disable cache**” option
3. Hard refresh dashboard (Ctrl+Shift+R)
4. Look at bottom of Network tab for load time
5. Check total transfer size

### Expected Result:

- **Load time:** Under 3 seconds (ideally under 2s)
- **Transfer size:** Under 2 MB
- **Number of requests:** Under 30
- All resources load (no failed red requests)

### Verification Checklist:

- [ ] Page loads in under 3 seconds
- [ ] No resources fail to load (all green/gray)
- [ ] No excessively large files (>500KB)
- [ ] No waterfall delays (requests don't block each other)

**If all 4 checks pass: Award 1 point** 

**If 2-3 pass: Award 0.5 points** 

**If fewer than 2: Award 0 points** 

**Score:** [ ] / 1

---

## Test 5.4: Error Handling (1 point)

**What this tests:** System handles errors gracefully

### Steps:

1. In DevTools, go to **Network** tab
2. Click “**No throttling**” dropdown → Select “**Offline**”

3. Try refreshing the dashboard page
4. Observe error handling
5. Switch back to “**No throttling**” (go online)
6. Reload page
7. Verify recovery

### **Expected Result:**

#### **When Offline:**

- Shows error message (not blank page)
- Error is user-friendly (e.g., “Unable to load data. Please check your connection.”)
- “Try Again” button appears
- Layout doesn’t break

#### **When Back Online:**

- Page loads normally
- Data appears correctly
- No lingering errors

### **Verification Checklist:**

- [ ] Offline state shows error message (not white screen)
- [ ] Error message is user-friendly
- [ ] Page structure remains intact
- [ ] Can recover when back online

**If all 4 checks pass: Award 1 point ✓**

**If 2-3 pass: Award 0.5 points !**

**If fewer than 2: Award 0 points ✗**

**Score:** [ ] / 1

---

## **Test 5.5: Browser Compatibility (1 point)**

**What this tests:** Dashboard works across different browsers

### **Steps:**

1. Test dashboard in **Google Chrome** (primary browser)
2. If available, test in **Firefox**
3. If available, test in **Safari** (Mac/iOS)
4. If available, test in **Edge**

### **Expected Result:**

- Dashboard loads in all browsers
- Layout is consistent
- All features work (navigation, filtering, etc.)
- No browser-specific errors

### **Verification Checklist:**

- [ ] Works in Chrome/Chromium

- [ ] Works in at least one other browser (Firefox/Safari/Edge)
- [ ] Layout consistent across browsers
- [ ] No browser-specific console errors

If all 4 checks pass: Award 1 point 

If 2-3 pass: Award 0.5 points 

If fewer than 2: Award 0 points 

Score: [ ] / 1

---



**PHASE 5 TOTAL SCORE: [ ] / 5**

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## FINAL SCORING & CERTIFICATION

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### COMPLETE SCORECARD

PHASE 1: System Health Check	[ ] / 12 points
PHASE 2: Dashboard Core Functions	[ ] / 15 points
PHASE 3: Data Management Pages	[ ] / 12 points
PHASE 4: API & Backend Verification	[ ] / 8 points
PHASE 5: Integration & Edge Cases	[ ] / 5 points

---

TOTAL SCORE: [ ] / 52 points

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PERCENTAGE: \_\_\_\_\_%

---

## GRADING SCALE

Score Range	Grade	Status	Recommendation
50-52 (96-100%)	A+	 EXCELLENT	Production ready - deploy with confidence
47-49 (90-95%)	A	 VERY GOOD	Production ready - minor polish optional
45-46 (87-89%)	B+	 GOOD	Production ready - passing grade
40-44 (77-86%)	B	 ACCEPTABLE	Functional but review failures
35-39 (67-76%)	C	 NEEDS WORK	Multiple issues - address before production
Below 35 (<67%)	F	 FAIL	Critical issues - do not deploy

**PASSING GRADE: 45/52 (87%)**

## CERTIFICATION

If you scored 45 points or higher, the system is PRODUCTION READY!

Fill out this certification:

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DENTRA MVP TESTING CERTIFICATE

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Tested By: \_\_\_\_\_

Date: \_\_\_\_\_

Total Score: \_\_\_\_\_ / 52 (\_\_\_\_\_%)

Grade: \_\_\_\_\_

Status: [ ] PASS [ ] FAIL

Critical Issues Found: \_\_\_\_\_

Minor Issues Found: \_\_\_\_\_

Comments:

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**CERTIFICATION:**

- [ ] I certify that I have completed all test phases
- [ ] I certify the system is functioning as designed
- [ ] I certify the dashboard is production-ready
- [ ] I recommend deployment to production

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

---



## ISSUE TRACKING

If you found any issues during testing, document them here:

### Critical Issues (Blocks Production)

1.   Issue: \_\_\_\_\_  
Phase: \_\_\_\_\_  Test: \_\_\_\_\_  
Description: \_\_\_\_\_
  
2.   Issue: \_\_\_\_\_  
Phase: \_\_\_\_\_  Test: \_\_\_\_\_  
Description: \_\_\_\_\_

## Minor Issues (Can Deploy with Workarounds)

1.   Issue: \_\_\_\_\_  
Phase: \_\_\_\_\_  Test: \_\_\_\_\_  
Description: \_\_\_\_\_
  
2.   Issue: \_\_\_\_\_  
Phase: \_\_\_\_\_  Test: \_\_\_\_\_  
Description: \_\_\_\_\_

## Enhancement Requests (Post-MVP)

1.   Request: \_\_\_\_\_  
Benefit: \_\_\_\_\_
  
2.   Request: \_\_\_\_\_  
Benefit: \_\_\_\_\_



## SCREENSHOT CHECKLIST

**For documentation/demo purposes, capture these screenshots:**

- Dashboard homepage (full view)
- Appointments page showing 20+ entries
- Clinics page showing all 5 clinics
- API documentation (Swagger UI)
- System Health section (green status)
- Empty state: Calls page
- Empty state: Escalations page
- DevTools showing clean console (no errors)
- DevTools Network tab showing successful API calls
- Mobile view (responsive design)



## NEXT STEPS AFTER TESTING

**If You PASSED (45+ points):**

1.  Document your score and any minor issues
2.  Take screenshots for records
3.  Deploy to production (system is ready)
4.  Configure Twilio for live call handling
5.  Monitor system with real data
6.  Train staff on dashboard usage

**If You FAILED (<45 points):**

1.  Document all failures in detail
2.  Report critical issues to development team

3. **Do NOT deploy** to production
  4. **Retest after fixes** are implemented
  5. **Schedule follow-up** testing session
- 

## SUPPORT & QUESTIONS

If you encounter issues during testing:

1. **Check browser console** (F12) for error messages
  2. **Check DevTools Network tab** for failed requests
  3. **Try different browser** to rule out browser-specific issues
  4. **Clear cache** and retry (Ctrl+Shift+Delete)
  5. **Document the issue** with screenshots
  6. **Report to development team** with details
- 



## TESTING NOTES

Use this space for any additional observations:

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## TIME TRACKING

Phase 1 Start Time:	<input type="text"/>	End Time:	<input type="text"/>	Duration:	<input type="text"/> min
Phase 2 Start Time:	<input type="text"/>	End Time:	<input type="text"/>	Duration:	<input type="text"/> min
Phase 3 Start Time:	<input type="text"/>	End Time:	<input type="text"/>	Duration:	<input type="text"/> min
Phase 4 Start Time:	<input type="text"/>	End Time:	<input type="text"/>	Duration:	<input type="text"/> min
Phase 5 Start Time:	<input type="text"/>	End Time:	<input type="text"/>	Duration:	<input type="text"/> min

TOTAL TESTING TIME:  minutes

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**Document Version:** 1.0

**Last Updated:** January 11, 2026

**System Version:** Dentra MVP 1.0

**Backend Version:** 1.0.0

**Dashboard Version:** 1.0

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# CONGRATULATIONS!

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You've completed the **Dentra MVP Complete Testing Workflow!**

This comprehensive test validates:

- Backend API functionality
- Frontend dashboard operations
- Database connectivity
- Navigation and routing
- Data display and accuracy
- Error handling
- Performance and responsiveness

**Your testing helps ensure Dentra delivers reliable, professional service to dental clinics!**

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End of Testing Workflow