



Patient Demographics Functions Specifications

1.0 Purpose

The purpose of this document is to describe the specifications developed for the patient demographics functions. The specifications include not only the data collection of patient medical history, but also the ability to search and find patient medical history information. The patient demographics will be used to track and store ClearView image and analysis data.

1.0 General Requirements

Where appropriate, logic should be contained in try/catch blocks and any exceptions should be logged using the standard logging mechanisms.

2.0 Specifications

General

Many of the services in the application run within the general client framework and can be accessed independently of the patient demographics. The General application framework is the overall framework of the application that provides authentication, navigation and integration services to other embedded services.

Assumptions and Dependencies

The user has logged into the system.

The user has appropriate permissions to enter the patient demographics.

2.1 Capture of patient demographics

These requirements are related to the workflow and process of capturing the patient demographics and persistence to the local storage.

Requirement #1: Users must be able to search for a patient in the system. All new patient entry must begin with the search screen. This is to ensure that there is not an existing patient.

Specification: The Manage Patient button is the only method to access the Patient Demographics. The first action is to open a Search Patient dialog box in order to determine if the patient already exists in the database.

Requirement #2: To search a patient, the user is prompted to enter at a minimum the patient's first or last name. Additionally, search can be conducted by the patient's birth date and gender in order to narrow the search results.



Patient Demographics Functions Specifications

Specification: The Search Patient dialog box requires the user to enter at least a portion of the first name, last name, birth date, and/or gender of the patient.

Requirement #3: The system displays zero or more results for the search criteria entered.

Specification: After clicking the Find button, the database returns all results that meet the search specifications. A message is displayed to notify the user if no records match the search criteria.

Requirement #4: If the appropriate patient is not found, then the user is presented with the ability to create a new patient profile.

Specification: Once the search results are returned, the Add Patient button is available in the Search Patient dialog box. The Add Patient button opens the Personal & Demographic window for initial data entry of patient information.

Requirement #5: If the patient is found, then the user is able to view the patient demographics information, capture a new scan for the patient selected, or enter a new patient profile.

Specification: Once the search results are returned with patients that meet the search criteria, users may select a specific patient listed and have the options to view the Patient Demographics information, Capture a new scan for the patient selected.

2.2 Completing entry of a new patient.

Requirement #6: The user will be prompted to enter patient's remaining demographic information.

Specification: The Personal & Demographic tab is the first tab automatically displayed when the Add New Patient button is selected.



Patient Demographics Functions Specifications

A screenshot of a software application window titled "Add Patient". The main area is divided into several tabs: "Personal & Demographic", "Main Problems", "Health Information", and "Diet & Lifestyle". The "Personal & Demographic" tab is active and contains the following sections:

- General Info:** Fields for First Name, Mi, Last Name, Birth Date, Age, and Gender.
- Patient Address:** A table with columns for Address 1, Address 2, City, State, Zip Code, and Type. Buttons for Add, Edit, and Delete are at the bottom.
- Detailed Info:** Fields for Place of Birth, Occupation, and E-mail.
- Height:** Height: eg. 65, Height Type: NotSet, SSN / ID #: [empty field].
- Weight:** Weight: 0, Weight Type: eg. 150, Ethnicity: NotSet.
- Emergency Contact:** Fields for First Name, Mi, and Last Name.
- Phone Numbers:** A table with columns for AreaCode, PhoneNumber, Extension, and PhoneTypeID. Buttons for Add, Edit, and Delete are at the bottom.
- Primary Care Physician:** Fields for First Name and Last Name.
- Referred By:** Fields for First Name, Mi, and Last Name, along with a Referral Type dropdown set to NotSet.

The Personal & Demographic tab contains data entry for the following:

- General Info (i.e., First Name, Middle Initial (i.e., "Mi"), Last Name, Birth Date, Age and Gender).
- A Patient Address control which allows for multiple addresses to be entered. The data points in this control are Address 1, Address 2, City, State, Zip Code, and Type (a unique identifier for each address such as Home, Work, etc.).

A modal dialog box titled "Patient Address". It contains five input fields: "Address 1", "Address 2", "City", "Zip Code", and "Type". Each field has a red exclamation mark icon to its right. Next to "City" is a "State" field with a dropdown menu containing "NotSet" and another red exclamation mark icon. At the bottom are "Accept" and "Cancel" buttons.

- A Patient Phone control which allows for multiple phone numbers to be entered. The data points in this control are Area Code, Phone Number, Extension, and Phone Type ID (a unique identifier for each phone number such as Home, Work, etc.).



Patient Demographics Functions Specifications

Patient Phone

Area Code:	Phone Number:	Ext:
<input type="text"/>	<input type="text"/>	<input type="text"/>
Type:		
<input type="button" value="NotSet"/>	<input type="button" value="Accept"/> <input type="button" value="Cancel"/>	

- Primary Care Physician including data points for First Name and Last Name.
- Detailed Info such as Place of Birth, Occupation, E-mail, Height, Height Type, SSN/ID#, Weight, Weight Type, and Ethnicity.
- An Emergency Contact control which allows for multiple Emergency Contacts to be entered. The data points in this control are First Name, Middle Initial ("Mi"), Last Name and an internal control to enter Phone Numbers which include the data points Area Code, Phone Number, Extension and Phone Type ID (a unique identifier for each phone number such as Home, Work, etc.).
- Referred by including data points for First Name, Middle Initial ("Mi"), Last Name and Referral Type (as a drop down menu which includes Friend, Physician, Family Member, Acupuncturist, Nutritionist, Chiropractor, and Other).

Requirement #7: The user will be prompted to enter patient's Main Problem(s) including the following:

- 1) Effect on daily activities.
- 2) Duration of symptoms and Diagnosis details.
- 3) Treatments, effectiveness of treatments. Whether or not the patient has tried Acupuncture or Chinese herbal medicines.

Specification: The Main Problems tab is displayed when the Add New Patient button is selected. The Main Problems tab provides a control to enter the main problems of the patient.



Patient Demographics Functions Specifications

A screenshot of a software application window titled "Add Patient". The main area is divided into several tabs: "Personal & Demographic", "Main Problems", "Health Information", and "Diet & Lifestyle". The "Main Problems" tab is active. It contains a table with columns for "Main Problem", "Symptom Length", "Time Type", "Have Diagnosis", "Diagnosis", "Treatments", "Did Treatments Help", "Treated With All Meds", and "Additional Comments". Below this table is a section titled "Activity Type" with a table header "Activity Type | Description". A tooltip message "Click on the main Problem above to view the associated activity." is displayed near the top left of this section. At the bottom right of the main content area are three buttons: "Add", "Edit", and "Delete".

Clicking the Add button provides the user with the Main Problems General Info and Additional Info controls.

A screenshot of the "Main Problems" control from the previous interface. On the left, under "General Info", there is a section for "Main Problem" with a large text input field, "Additional Comments" with a text input field, and "Symptom Duration" with a dropdown menu showing "0" and "NotSet". On the right, under "Additional Info", there is a section titled "How has your problem(s) affected your daily activities:" with a table header "Please Specify How The Problem Has Affected Each Activity". This table includes columns for "Activity Type" and "Description", with rows for "Work", "Sleep", and "Eating". A tooltip "Click inside the Description column to Add or Edit its value." is shown. Below this is a section titled "Do you have a diagnosis:" with radio buttons for "Yes" and "No". Underneath is a "Please Provide Diagnosis Information" section with a "Describe Diagnosis" text input field, a "What treatments have you tried?" text input field, and a "Were they helpful?" section with radio buttons for "Yes" and "No". At the bottom right are "Accept" and "Cancel" buttons.

- General Info control which allows for multiple Main Problems to be entered. The data points in this control are Main Problem, Additional Comment and Symptom Duration which provides a method for record a numerical duration and a drop down menu of units (i.e., days, months, years).
- Additional Information control which contains data points regarding each Main Problem. in this control are data points to record How the Problem Affects Daily Activities (text box) with specific entry points for Work, Sleep, and Eating. Additional data points include Yes/No data point Do You Have a Diagnosis?, text box to Describe Diagnosis, text box to record Treatments Tried, Yes/No data



Patient Demographics Functions Specifications

points for whether the treatments tried were Helpful and whether acupuncture or Chinese medicine treatments have been tried.

This screenshot shows the "Main Problems" section of the EPIC software. On the left, there's a "General Info" panel with fields for "Main Problem" (a large text area), "Additional Comments" (a smaller text area), and "Symptom Duration" (a dropdown menu showing "0" and "NotSet"). On the right, there's an "Additional Info" panel with sections for "How has your problem(s) affected your daily activities?", "Do you have a diagnosis?", and "Please Provide Diagnosis Information". At the bottom right are "Accept" and "Cancel" buttons.

Requirement #8: The user will be prompted to enter patient's Past Medical History.

Specification: The Health Information tab is displayed when the Add New Patient button is selected. The Health Information tab provides a control to enter the several areas of Health Information. Sub-tabs displayed under the Health Information tab include Medical History, Family History, Previous Conditions, Physical, Psychological & Chemical, Reproductive System, and Additional Comments.

This screenshot shows the "Health Information" tab of the EPIC software. It includes tabs for "Medical History", "Family History", "Previous Conditions", "Physical, Psychological & Chemical", "Reproductive System", and "Additional Comments". The "Medical History" tab is active and contains sections for "History" (with checkboxes for Diabetes, Hypertension, etc.), "Surgeries/Traumas" (with a note to indicate year), "Supplements" (with "Add" and "Delete" buttons), and "Allergies" (with a note to indicate year). There are also "Add" and "Delete" buttons at the bottom of the supplement and allergies sections.



Patient Demographics Functions Specifications

Requirement #9: The user will be prompted to enter patient's Past Medical History including the following:

- 1) Allergies.
- 2) Surgeries with Dates.
- 3) History of diabetes / Hepatitis / Hyper Tension / Heart Disease / Cancer.
- 4) List of all Medications/Supplements- The user will be able to select from a list provided on the screen of medications taken in the last two months (multiple choice). This will also include a selection of "Other" and the ability to enter a description of what "Other" is. This differs from the include example intake form where the entries are textual.

Specification: The Medical History sub-tab is displayed when the Add New Patient button is selected. The Medical History sub-tab provides a control to enter the Patient Medical History including:

- Medication control which provides data entry of medications from a specified Medications List. The control provides a method for searching the Medications List which includes a data entry field and a Find button. The Medications List provides the name of the medication and can contain the dosage/method of use. Medications are added to the Patient Medication List using the Add button and removed from the Patient Medication List using the Remove button. The control provides a method to save the Patient Medication List using the Accept button or to not save the Patient Medication List using the Cancel button.



Patient Demographics Functions Specifications

A screenshot of a software dialog box titled "Patient Medical History". The dialog has two main sections: "Medications List:" on the left and "Patient Medication List:" on the right. The "Medications List:" section contains a scrollable list of medication names, with "AXID CAPSULES" at the top. The "Patient Medication List:" section is currently empty. Between the two lists is an "Add" button with a green arrow pointing right. At the bottom of the dialog are "Accept" and "Cancel" buttons, along with a "Remove" button. A "Find" button is located at the top center. A search input field is positioned above the "Find" button. Navigation controls (Back, Forward, Home, Page Number, and Total Pages) are located at the bottom left of the list area.

Medications List:

- MedicationName
- AXID CAPSULES
- BREVITAL SODIUM INJECTION
- BREVITAL SODIUM POWDER FO...
- CAPASTAT SULFATE INJECTION
- CECLR CAPSULES
- DARVOCET N 100 TABLETS
- DARVON COMPOUND 65 CAPSU...
- DARVON N TABLETS
- DOLLOPHINE HYDROCHLORIDE T...
- KEEUROX POWDER FOR SOLUTI...

Patient Medication List:

MedicationName

Add

Remove

Accept Cancel

- Supplements control which provides data entry of medications from a specified Supplements List. The control provides a method for searching the Supplements List which includes a data entry field and a Find button. The Supplements List provides the name of the Supplement. Supplements are added to the Patient Supplements List using the Add button and removed from the Patient Supplements List using the Remove button. The control provides a method to save the Patient Supplements List using the Accept button or to not save the Patient Supplements List using the Cancel button.



Patient Demographics Functions Specifications

A screenshot of a Windows-style dialog box titled "Patient Supplements List". The dialog has two main sections: "Supplements List:" on the left and "Patient Supplements List:" on the right. Both sections contain a list box labeled "Supplement Name". Between the two lists is a central area with a green "Add" button featuring a play icon. At the bottom of the dialog are navigation buttons ("◀", "0 GO of ▶"), a "Remove" button, and two action buttons: "Accept" and "Cancel". Above the "Find" button is a search input field.

- History check box entry of history of diabetes, Hepatitis, Hypertension, Heart Disease, Cancer, Blood Disease, Kidney Disease, Thyroid Disease, Reaction to Anesthetics.
- Text box entry of Surgeries/Traumas (Please indicate year).
- Text box entry of Allergies

Requirement #10: The user will be prompted to enter patient's Family history of diabetes, Heart Disease, High Blood pressure, blood disease, kidney disease, thyroid disease, reaction to anesthetics and cancer.

Specification: The Family History sub-tab is displayed when the Add New Patient button is selected. The Family History sub-tab provides a list of Disease Types with check boxes to indicate the family member with the history of disease type.



Patient Demographics Functions Specifications

Add Patient

Personal & Demographic		Main Problems		Health Information		Diet & Lifestyle	
Medical History	Family History	Previous Conditions		Physical, Psychological & Chemical		Reproductive System	Additional Comments
Family History		Mother	Father	Siblings	Other		
Disease Type		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Diabetes		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hepatitis		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hypertension		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Heart Disease		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cancer		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Blood Disease		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Kidney Disease		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Thyroid Disease		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Reaction To Anesthetics		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Click on a checkbox in the grid to enable / disable it.

Requirement #11: The user will be prompted to enter patient's Conditions experienced within past six months.

Specification: The Previous Conditions sub-tab is displayed when the Add New Patient button is selected. The Previous Conditions sub-tab provides check boxes to indicate which of the displayed conditions were previously experienced:

Add Patient

Personal & Demographic		Main Problems		Health Information		Diet & Lifestyle	
Medical History	Family History	Previous Conditions		Physical, Psychological & Chemical		Reproductive System	Additional Comments
Previous Conditions							
<input type="checkbox"/> Pain/ Distension on Side	<input type="checkbox"/> Tired After Eating	<input type="checkbox"/> Acid Reflux	<input type="checkbox"/> Blood in Stool	<input type="checkbox"/> Stress Related Diarrhea	<input type="checkbox"/> Rapid Hungering	<input type="checkbox"/> Enlarged Thyroid	<input type="checkbox"/> Bad Breath
<input type="checkbox"/> Cystic Breasts	<input type="checkbox"/> Mouth Sores	<input type="checkbox"/> Constipation	<input type="checkbox"/> Nausea	<input type="checkbox"/> Ear Ringing, High	<input type="checkbox"/> Vomiting	<input type="checkbox"/> Impatience	<input type="checkbox"/> Belching
<input type="checkbox"/> Ear Ringing, High	<input type="checkbox"/> Hiccoughs	<input type="checkbox"/> Insomnia	<input type="checkbox"/> Labored Breathing	<input type="checkbox"/> Headache on Sides	<input type="checkbox"/> Rapid Breathing	<input type="checkbox"/> Sudden Deafness	<input type="checkbox"/> Weak Voice
<input type="checkbox"/> Limb Numbness	<input type="checkbox"/> Post Nasal Drip	<input type="checkbox"/> Twitches or Tremors	<input type="checkbox"/> Cough with Phlegm	<input type="checkbox"/> Dry Eyes, Nails or Hair	<input type="checkbox"/> Dry Cough	<input type="checkbox"/> Seizures or Stroke	<input type="checkbox"/> Hoarse Voice
<input type="checkbox"/> Seizures or Stroke	<input type="checkbox"/> Dry Mouth/Throat	<input type="checkbox"/> Shortness of Breath	<input type="checkbox"/> Allergies	<input type="checkbox"/> Sweats Easily	<input type="checkbox"/> Dry Skin	<input type="checkbox"/> Cold Sweats	<input type="checkbox"/> Depression
<input type="checkbox"/> Shortness of Breath	<input type="checkbox"/> Stomach Ache	<input type="checkbox"/> Sweats Easily	<input type="checkbox"/> Dry Stool	<input type="checkbox"/> Cold Sweats	<input type="checkbox"/> Ear Ringing, Low	<input type="checkbox"/> Cold Limbs	<input type="checkbox"/> Dizziness
<input type="checkbox"/> Sweats Easily	<input type="checkbox"/> Vertigo	<input type="checkbox"/> Cold Sweats	<input type="checkbox"/> Ear Ringing, Low	<input type="checkbox"/> Limb Edema	<input type="checkbox"/> Aching Back	<input type="checkbox"/> Dizziness	<input type="checkbox"/> Palpitations
<input type="checkbox"/> Cold Sweats	<input type="checkbox"/> Night Time Urination	<input type="checkbox"/> Cold Sweats	<input type="checkbox"/> Aching Back	<input type="checkbox"/> Easily Fatigued	<input type="checkbox"/> Aching Knees	<input type="checkbox"/> Palpitations	<input type="checkbox"/> Difficulty Falling Asleep
<input type="checkbox"/> Limb Edema	<input type="checkbox"/> Frequent Urination	<input type="checkbox"/> Chest Tightness	<input type="checkbox"/> Copious Urine	<input type="checkbox"/> Easily Fatigued	<input type="checkbox"/> Night Time Urination	<input type="checkbox"/> Night Time Urination	<input type="checkbox"/> Difficulty Falling Asleep
<input type="checkbox"/> Easily Fatigued	<input type="checkbox"/> Urinary Pain	<input type="checkbox"/> Chest Pain	<input type="checkbox"/> Water Retention	<input type="checkbox"/> Lethargy	<input type="checkbox"/> Day Break Diarrhea	<input type="checkbox"/> Urinary Pain	<input type="checkbox"/> Poor Memory
<input type="checkbox"/> Lethargy	<input type="checkbox"/> Hair Loss	<input type="checkbox"/> Edema	<input type="checkbox"/> Impotence	<input type="checkbox"/> Loss of Appetite	<input type="checkbox"/> Impotence	<input type="checkbox"/> Day Break Diarrhea	<input type="checkbox"/> Anxiety
<input type="checkbox"/> Loss of Appetite	<input type="checkbox"/> Day Break Diarrhea	<input type="checkbox"/> Edema	<input type="checkbox"/> Loss of Libido	<input type="checkbox"/> Indigestion	<input type="checkbox"/> Declining Memory	<input type="checkbox"/> Impotence	<input type="checkbox"/> Night Sweating
<input type="checkbox"/> Indigestion	<input type="checkbox"/> Declining Memory	<input type="checkbox"/> Easily Fatigued	<input type="checkbox"/> Declining Memory	<input type="checkbox"/> Abdominal Bloating	<input type="checkbox"/> Declining Memory	<input type="checkbox"/> Declining Memory	<input type="checkbox"/> Hot Hands or Feet
<input type="checkbox"/> Abdominal Bloating	<input type="checkbox"/> Declining Memory	<input type="checkbox"/> Easily Fatigued	<input type="checkbox"/> Declining Memory	<input type="checkbox"/> Loose Stool	<input type="checkbox"/> Declining Memory	<input type="checkbox"/> Declining Memory	<input type="checkbox"/> Chest Tightness

- Requirement #12:** The user will be prompted to enter patient's unusual physical job demands, psychological stress and/or chemical exposure at work or home.



Patient Demographics Functions Specifications

Specification: The Physical, Psychological & Chemical sub-tab is displayed when the Add New Patient button is selected. The Physical, Psychological & Chemical sub-tab provides a text box with the Title “Unusual Physical Demands, Psychological Stress and/or Chemical Exposure” and the instruction “Please list history of depression and emotional trauma”.

Requirement #13: The user will be prompted to enter information on the reproductive system for the patient.

Specification: The Reproductive System sub-tab is displayed when the Add New Patient button is selected. The Reproductive System sub-tab provides data entry specific to the reproductive system for male and female patients.

- When the gender entered in Patient Demographics is selected not selected, this sub-tab displays no data entry points.
- When the gender entered in Patient Demographics is selected as Male, the sub-tab provides check boxes to indicate whether the patient has experienced Premature Ejaculation, Excessive Sexual Drive, Active Sexual Life, weak Erection, Loss of Sexual Drive, Impotence, and Emission.



Patient Demographics Functions Specifications

Personal & Demographic		Main Problems	Health Information		Diet & Lifestyle
Medical History	Family History	Previous Conditions	Physical, Psychological & Chemical	Reproductive System	Additional Comments
Patient Sexual Health					
General Info					
<input type="checkbox"/> Premature Ejaculation <input type="checkbox"/> Excessive Sexual Drive <input type="checkbox"/> Active Sexual Life <input type="checkbox"/> Weak Erection <input type="checkbox"/> Loss of Sexual Drive <input type="checkbox"/> Impotence <input type="checkbox"/> Emission					

- When the gender entered in Patient Demographics is selected as Female, the sub-tab provides check boxes to indicate the patient's General Sexual Health Info including all those listed in the image below (e.g., Regular Cycles, Delayed Cycles, etc.).

Personal & Demographic		Main Problems	Health Information		Diet & Lifestyle
Medical History	Family History	Previous Conditions	Physical, Psychological & Chemical	Reproductive System	Additional Comments
Patient Sexual Health					
General Info					
<input type="checkbox"/> Regular Cycles <input type="checkbox"/> Delayed cycles <input type="checkbox"/> Early cycles <input type="checkbox"/> Light flow <input type="checkbox"/> Heavy flow <input type="checkbox"/> Normal flow <input type="checkbox"/> Pale Color <input type="checkbox"/> Red Color <input type="checkbox"/> Purple Color <input type="checkbox"/> Thin discharge <input type="checkbox"/> Thick discharge <input type="checkbox"/> Clotted discharge <input type="checkbox"/> PMS <input type="checkbox"/> Menstruation Irregularity <input type="checkbox"/> Birth Control Used <input type="checkbox"/> Presently Pregnant <input type="checkbox"/> Pain in Menstruation <input type="checkbox"/> Bleeding between Periods <input type="checkbox"/> Hot Flashes <input type="checkbox"/> Loss of Sexual Drive <input type="checkbox"/> Excessive Sexual Drive					
Additional Info					
Sexual Health Issue					
Age at 1 st menses		Value			
Age at menopause		N.A.			
Number of Pregnancies		N.A.			
Number of Miscarriages		N.A.			
Number of Abortions		N.A.			

- The sub-tab also contains an Additional Info control which lists Sexual Health Issues specific to female patients. The Ages at 1st Menses, Age at Menopause, Number of Pregnancies, Number of Miscarriages, Number of Abortions are listed. Each data point opens to display the numerical data entry box. Examples of each display are listed below:

Additional Info	
Age at 1 st menses	0
<input type="button" value="Accept"/> <input type="button" value="Cancel"/>	



Patient Demographics Functions Specifications

Additional Info

Age at menopause

Additional Info

Number of Pregnancies

Additional Info

Number of Miscarriages

Number of Abortions

Requirement #14: The user will be prompted to enter additional comments or information related to patient's health.

Specification: The Additional Comments sub-tab is displayed when the Add New Patient button is selected. The Additional Comments sub-tab provides a text box to enter any additional comments regarding the patient's health.

Requirement #15: The user will be prompted to enter patient's average daily food intake information.

Specification: The Diet & Lifestyle tab is displayed when the Add New Patient button is selected. The Diet & Lifestyle tab displays two different sub-tabs- Average Daily Food Consumption and Nicotine, Caffeine & Alcohol Consumption. The Average Daily Food Consumption sub-tab provides a list of Meal Types (i.e., 1st Meal, 2nd Meal, 3rd Meal, 4th Meal, 5th Meal, and Snacks) and the Description entered for each.



Patient Demographics Functions Specifications

A screenshot of a software application window titled "Patient Demographics Functions Specifications". The window has several tabs at the top: "Personal & Demographic", "Main Problems", "Health Information", "Nicotine, Caffeine & Alcohol Consumption", and "Diet & Lifestyle". The "Diet & Lifestyle" tab is currently selected. Within this tab, there is a sub-tab labeled "Average Daily Food Consumption". A table titled "Daily Food Intake" is displayed, with columns for "Meal Type" and "Description". The table contains rows for "1st Meal", "2nd Meal", "3rd Meal", "4th Meal", "5th Meal", and "Snacks". The "Edit" button is located in the bottom right corner of the main window area.

Double clicking on the Meal Type opens a Daily Food Intake text box labeled for the selected Meal Type. An example of this display:

A screenshot of the same software application window, focusing on the "Nicotine, Caffeine & Alcohol Consumption" sub-tab under the "Diet & Lifestyle" tab. The sub-tab title is "Use of Drugs, Nicotine, Caffeine and Alcohol". A form is displayed with fields for "Type", "Amount", "Frequency", and "Quit Date". The "Type" field is set to "Caffeinated Drinks", "Amount" is "0", "Frequency" is "(none)", and "Quit Date" is "(none)". There is also an "Info" icon (an 'i' in a blue circle) next to the frequency dropdown. At the bottom right of the sub-tab area are "Accept" and "Cancel" buttons.

Requirement #16: The user will be prompted to enter patient's Information on intake of Tobacco/Nicotine, Caffeinated drinks, Alcoholic beverages and drugs and also if they have quit, the date when the quit consuming these products.

Specification: The Nicotine, Caffeine & Alcohol Consumption sub-tab is displayed when the Add New Patient button is selected. The Nicotine, Caffeine & Alcohol Consumption



Patient Demographics Functions Specifications

sub-tab provides a control to enter the consumption of nicotine, caffeine and alcohol of the patient.

Personal & Demographic		Main Problems	Health Information	Diet & Lifestyle
		Average Daily Food Consumption	Nicotine, Caffeine & Alcohol Consumption	
Use of Drugs, Nicotine, Caffeine and Alcohol				
Type:	Amount:		Quit Date:	
Tobacco	0	(none)		
Caffeinated Drinks	0	(none)		
Alcoholic Beverages	0	(none)		
Drugs	0	(none)		

- The Nicotine control provides data entry of the numerical amount of tobacco used, a drop down menu to select the frequency of use, and a drop down menu to select the quit date.

Personal & Demographic		Main Problems	Health Information	Diet & Lifestyle
		Average Daily Food Consumption	Nicotine, Caffeine & Alcohol Consumption	
Use of Drugs, Nicotine, Caffeine and Alcohol				
Type:	Amount:	Frequency:	Quit Date:	
Tobacco	<input type="text" value="0"/>	<input type="button" value="▼"/>	<input type="button" value="(none)"/>	<input type="button" value="i"/>



Patient Demographics Functions Specifications

- The Caffeinated Drinks control provides data entry of the numerical amount of caffeinated drinks consumed, a drop down menu to select the frequency of consumption, and a drop down menu to select the quit date.

Personal & Demographic	Main Problems	Health Information	Diet & Lifestyle
Average Daily Food Consumption			
Use of Drugs, Nicotine, Caffeine and Alcohol			
Type: Caffeinated Drinks	Amount: <input type="text" value="0"/>	Frequency: <input type="button" value="▼"/>	Quit Date: (none) <input type="button" value="▼"/>
		Accept Cancel	

- The Alcoholic Beverages control provides data entry of the numerical amount of Alcoholic Beverages consumed, a drop down menu to select the frequency of consumption, and a drop down menu to select the quit date.

Personal & Demographic	Main Problems	Health Information	Diet & Lifestyle
Average Daily Food Consumption			
Use of Drugs, Nicotine, Caffeine and Alcohol			
Type: Alcoholic Beverages	Amount: <input type="text" value="0"/>	Frequency: <input type="button" value="▼"/>	Quit Date: (none) <input type="button" value="▼"/>
		Accept Cancel	



Patient Demographics Functions Specifications

- The Other control provides data entry of the numerical amount of drugs used, a drop down menu to select the frequency of use, and a drop down menu to select the quit date.

A screenshot of a software application window titled "Patient Demographics Functions Specifications". The window has four tabs at the top: "Personal & Demographic", "Main Problems", "Health Information", and "Diet & Lifestyle". The "Health Information" tab is selected, showing the sub-tab "Use of Drugs, Nicotine, Caffeine and Alcohol". Within this tab, there is a form for entering drug usage information. It includes fields for "Type:" (set to "Drugs"), "Amount:" (with a numeric input field containing "0"), "Frequency:" (a dropdown menu), "Quit Date:" (a dropdown menu set to "[none]"), and a small "Help" icon. At the bottom right of the window are "Accept" and "Cancel" buttons.

Requirement #17: The user can either cancel out of the process (Cancel) or they can save the information (Save).

Specification: A Save button is always displayed at the top left of the screen (persisted display no matter which tab/sub-tab is displayed). This button will save the patient demographic information entered as long as the First Name, Last Name, Birth Date, and Gender have data entered. These four minimum required data points must have data in order to save a patient demographic and/or conduct a scan. The data entry process can be cancelled at any time by clicking the "X" in the upper right corner of the tabs. If the Save button is selected, the data will be saved and the tab will be closed. If the Cancel button is selected, the data is not saved and tab is closed.

Requirement #18: All data will be saved on the local system located at the client location. This includes all information contained on the patient intake form and the unique identifier generated based upon the patients name, date of birth and gender.

Specification: All data is saved in a local SQL Server database located on the same device as the ClearView application. There is no data that is not stored locally, a backup and synchronization process which will synchronize report data only to the Epic Central server is yet to be written. This process, when complete, will transfer only calculated and collected (non-demographic data). A unique identifier is established to tie the data back to the demographics on the client as necessary.



Patient Demographics Functions Specifications

2.3 Editing an existing patient.

Requirement #19: In order to update a patient record the same procedure is used to retrieve the record through the search functionality outlined above.

Specification: The patient demographics can be retrieved using the Search function described in Requirements #1, #2, and following. The Search function control provides a button View Patient which retrieves patient demographics and displays all data entered in the appropriate tabs/sub-tabs.

Requirement #20: A user can add to or update any of the existing patient's information listed above.

Specification: The patient demographics can be retrieved using the Search function described in Requirements #1, #2, and following. The Search function control provides a button View Patient which opens all of the patient demographics tabs/sub-tabs and allows the data entered to be edited, additional information entered, and obsolete/incorrect data to be deleted.

Patient Demographic Information- Specific Data Points and Functional format (highlighted in red)

Name: (required – auto populated from patient search screen)			
Street: (Text)	City: (Text)	State:	Zip: (Text)
Birth date: (required – auto populated from patient search screen)	Age: (Calculated)	Place of Birth: (Text)	Gender (M\F option)
Height: (Text)	Weight: (Text)	E-mail: (Text)	
Home Phone: (Text)		Cell Phone: (Text)	
Occupation: (Text)		Social Security #: (Text)	
Emergency Contact: (Text)		Phone: (Text)	
Referred By: (Text)		Friend <input type="checkbox"/> Physician <input type="checkbox"/> Family Member <input type="checkbox"/> Acupuncturist <input type="checkbox"/> Nutritionist <input type="checkbox"/> Chiropractor <input type="checkbox"/> Other <input type="checkbox"/> (Single-Option Select)	
Family Physician: (Text)		Address: (Text)	



Patient Demographics Functions Specifications

Main Problems the Patient would like to address

Main Problem(s): (Text)

Has your problem(s) affected your daily activities: YES NO IF YES PLEASE SPECIFY:

WORK HOW? (Checkbox)(Text)

SLEEP HOW? (Checkbox)(Text)

EATING HOW? (Checkbox)(Text)

How long have you had symptoms: (Text) Days (Text) Wks
(Text)

Months(Text)Yrs(Text)

Do you have a diagnosis? YES NO
(Single-Option Select)

Describe Diagnosis: (Text)

What treatments have you tried? (Text)

Were they helpful? YES NO (Single-Option Select)

Have you been treated with acupuncture or Chinese herbal medicine? YES NO (Single-Option Select)

Past Medical History

ALLERGIES: (Text)

SURGERIES/TRAUMAS: (NOTE YEAR FOLLOWING DESCRIPTION): (Text)

Please check if you have a history of:
(Multi-Option Select)

Diabetes

Hepatitis

Hypertension

Heart Disease

Cancer

List all Medications, Vitamins & Herbs Taken within the last two (2) months:

Unusual Physical Demands, Psychological stress, Chemical Exposure

(Text)



Patient Demographics Functions Specifications

DESCRIBE YOUR AVERAGE DAILY FOOD INTAKE:

1 ST Meal	2 ND Meal	3 RD Meal	4 TH Meal	5 TH Meal	Snacks
(Text -- All)					

Use of Drugs, Nicotine, Caffeine and Alcohol

	Tobacco/Nicotine	Caffeinated Drinks	Alcoholic Beverages	Drugs
TYPE	(Text)			
AMOUNT	(Text)			
QUIT?	(Month DropDown)			
MO/YR	(Year Drop Down)			

Family History

	MOTHER	FATHER	SIBLINGS	OTHER
DIABETES	(CheckBox -- all)			
HEART DISEASE				
HIGH BLOOD PRESSURE				
BLOOD DISEASE				
KIDNEY DISEASE				
THYROID DISEASE				
REACTION TO ANESTHETICS				
CANCER				



Patient Demographics Functions Specifications

Previous Conditions

Pain/ Distension on Side <i>(CheckBox -- all)</i>	Shortness of Breath	Easily Fatigued	Labored Breathing	Vertigo
Acid Reflux	Sweat Easily	Lethargy	Rapid Breathing	Ear Ringing, Low
Stress Related Diarrhea	Cold Sweats	Loss of Appetite	Weak Voice	Aching Back
Enlarged Thyroid	Cold Limbs	Indigestion	Post Nasal Drip	Aching Knees
Cystic Breasts	Limb Edema	Abdominal Bloating	Cough with Phlegm	Cold Limbs
Constipation	Dizziness	Loose Stool	Dry Cough	Copious Urine
Ear Ringing, High	Palpitations	Tired After Eating	Hoarse Voice	Frequent Urination
Impatience	Difficulty Falling Asleep	Blood in Stool	Dry Mouth/Throat	Night Time Urination
Insomnia	Poor Memory	Rapid Hungering	Allergies	Urinary Pain
Headache on Sides	Anxiety	Bad Breath	Dry Skin	Water Retention
Sudden Deafness	Night Seating	Mouth Sores	Depression	Hair Loss
Limb Numbness	Hot Hands or Feet	Nausea	Difficulty Falling Asleep	Day Break Diarrhea
Twitches or Tremors	Chest Tightness	Vomiting	Stomach Ache	Impotence
Dry Eyes, Nails or Hair	Chest Pain	Belching	Dry Stool	Loss of Libido
Seizures or Stroke	Edema	Hiccoughs		Declining Memory

Additional Comments about Health

(Text)



Patient Demographics Functions Specifications

Sexual Health. Only applicable section will be available depending upon gender section.

FOR WOMEN ONLY:

Age at 1 st menses <i>(CheckBox – all – on\off\null)</i>		Pale Color		Number of Pregnancies	
Age at menopause		Red Color		Number of Miscarriages	
If menstruating: Regular Cycles		Purple Color		Number of Abortions	
Delayed cycles		Thin discharge		Birth Control Used	
Early cycles		Thick discharge		Presently Pregnant	
Light flow		Clotted discharge		Pain in Menstruation	
Heavy flow		PMS		Bleeding between Periods	
Normal flow		Menstruation Irregularity		Hot Flashes	

FOR MEN ONLY:

Premature Ejaculation <i>(CheckBox – all – on\off\null)</i>		Weak Erection		Impotence	
Excessive Sexual Drive		Loss of Sexual Drive		Emission	
Active Sexual Life		Masturbation			



Patient Demographics Functions Specifications

Document Revision History