

MedicalDB Final Group Project

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Instructions to set up:

1. Run SchemaSetup.sql in MySql Workbench. "User" host and default table values will create upon initial run.
2. Import MedicalDBSample.war in Eclipse by right-clicking anywhere in the Project Explorer (inspector) and clicking on Import... ->Web->WAR file.
3. Expand the WebContent folder and locate "Home.html". Right-click the file and click on "Run as...". You should have a configuration option to run your local server.

To Know:

Each patient can have several conditions and procedures done in a single visit.

A patient can also have several visits. It is possible for the conditions and procedures to be performed on different days than the initial scheduled visit date, but is not usual unless there is first a scheduled follow up visit.

SAGA Medical DB

Home

Select a destination:

[Patient Profile](#)

[Patient Visits](#)

[Patient Conditions](#)

[Patient Procedures](#)

[Physicians](#)

[Recent Occurrences](#)

Maneuvering the Home Page:

The user will have several options here, Patient Profile, Patient Visits, Patient Conditions, Patient Procedures, and Physicians. Recent Occurrences. The user is suggested to visit the webpages in this order.

Patient Profile

Log New Patient

All fields except Emergency Contact are required.

Birth year in format 'YYYY' without quotes.

Phone number in format '###-###-####' without quotes.

First Name	<input type="text" value="Sum"/>
Last Name	<input type="text" value="Dood"/>
Birth Year	<input type="text" value="1000"/>
Phone Number	<input type="text" value="555 555 5555"/>
Emergency First Name	<input type="text" value="Sumuther"/>
Emergency Last Name	<input type="text" value="Dood"/>
Weight(lbs)	<input type="text" value="150"/>
Height(in)	<input type="text" value="72"/>
Blood Type(+/-)	<input type="text" value="b+"/>

Search for Patient

Existing Patient Only.

Birth year in format 'YYYY' without quotes.

Phone number in format '###-###-####' without quotes.

First Name	<input type="text"/>
Last Name	<input type="text"/>
Patient ID	<input type="text"/>
Birth Year	<input type="text"/>
Phone Number	<input type="text"/>

Patient Results

First Name	Last Name	Patient ID	Birth Year	Phone Number	Emergency First Name	Emergency Last Name	Weight(lbs)	Height(in)	Blood Type
Frank	Redbeard	1	1948	111-111-1111			185.00	59	O
Jack	Doe	2	1914	222-222-2222	Matka	Pluku	149.00	58	AB-
Matka	Pluku	3	1916	333-333-3333			185.00	59	O-
Karina	Nose	4	1961	444-444-4444	Hiro	Nose	105.60	51	A+
Hasan	Minhaj	5	1953	555-555-5555	Beena	Patel	162.40	60	B+
Bruce	Wayne	6	1934	666-666-6666	Selina	Kyle	210.00	61	AB+
Pamela	Isley	7	1959	777-777-7777	Cary	Bates	185.00	57	B-
Greta	Thunberg	8	1999	888-888-8888	Olaf	Thunberg	120.00	55	O+
Philip	Fry	9	1952	999-999-9999	Turanga	Leela	165.00	57	A+
John	Bercow	10	1943	111-222-3333	Sally	Bercow	160.00	55	O-
test	test	11	1000	510 555 5555	nope	none	15.00	72	b+
David	Pliskin	12	1972	555-555-5555	Naomi	Hunter	180.00	71	A+
Sum	Dood	13	1000	555 555 5555	Sumuther	Dood	150.00	72	b+

Patient Profile: There are 2 forms on this webpage, “Log New Patient” and “Search for Patient”.

Log New Patient - All fields, except the emergency contact fields, are required. There are prompts in the description to help the user input appropriate values for the fields such as birth year format, weight, and height. Once the user has clicked on submit, there will either be a notification that the rows have been updated and new patient information was saved, or prompt to check user input values. If successful, the user is prompted to make an appointment which will redirect them to Patient Visits.

Search for Patient - This is meant for searching existing patients only. There are prompts in the description to help the user input appropriate values for the fields such as birth year and phone number. No values are necessary for input in order to perform a search. Once the user has clicked on submit, patient results will display based on the user input values or prompt to check user input values. The results will include a patient’s first and last name, patient ID, birth year, phone number, emergency first and last name, weight, height, and blood type. More user input values present in the fields will return a refined search.

Patient Visits

Look Up Visits

Leave blank for wildcard value

First Name	Last Name	Completed
<input type="text"/>	<input type="text"/>	<input type="button" value="Yes"/>

Schedule New Visit

Existing Patient Only. Log new patient [here](#).

Date in format 'YYYY-MM-DD' without quotes

First Name	Last Name	Visit Description	Visit Date	Physician ID
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Incomplete Visits

First Name	Last Name	Physician	Visit Summary	Visit ID	Visit Date
Sum	Dood	Meredith Grey	a short description	12	2019-10-15
Pamela	Isley	Mario	Test 10 17	10	2019-10-15
Frank	Redbeard	Mario	Leg complaint, eye complaint	1	2010-09-01
Matka	Pluku	Meredith Grey	soreness in arm	3	2010-08-29
Bruce	Wayne	Stephen Strange	Follow up to visit from 2010-07-16	7	2010-07-23

Completed Visits

First Name	Last Name	Physician	Visit Summary	Visit ID	Visit Date
David	Pliskin	Mario	checkup	11	2019-10-18
Philip	Fry	Mario	'fingers smell like chicken'	9	2010-09-04
Karina	Nose	Meredith Grey	pain when walking	4	2010-09-02
Hasan	Minhaj	Meredith Grey	difficulty sleeping	5	2010-09-01
Pamela	Isley	Meredith Grey	Discoloration in veins	8	2010-08-29
Jack	Doe	Stephen Strange	chest pain	2	2010-08-26
Bruce	Wayne	Stephen Strange	Difficulty breathing, difficulty walking	6	2010-07-16

Patient Visits: There are 2 forms on this webpage, “Look Up Visits” and “Schedule New Visit”.

Look Up Visits - No input is required to run this search. The result will display an overview of all completed visits since the drop-down option is default marked to “Yes”. The user can simply change this to “No” in order to produce a result of the incomplete visits. More user input values present in the fields will return a refined search. The results will include a patient’s first and last name, physician, visit summary, visit ID, and visit date.

Schedule New Visit - This form is meant for existing patients only. All fields are required. There is a prompt in the description that redirect new patients to the Patient Profile webpage if they had not already made a profile, and a prompt to help the user input an appropriate value for the visit date field. If the user tries to schedule a visit without existing in the database or leaving fields blank, a prompt to check user input values will display. Once the user has input all fields and clicked on submit, the user is prompted to add conditions which will redirect them to Patient Conditions.

Patient Conditions

Search Patient Condition History

First Name

Last Name

Patient ID (if known)

Submit

Find Patient Based on Condition

Condition Description

Condition ID (if known)

Submit

Log New Condition for Patient

Existing Patient Only. Log new patient [here](#).

All fields are required.
Assumes new condition is currently active.

Patient ID

Condition Description

Treatment Plan

Diagnosed Visit ID

Submit

Update Condition/Completion Status for Patient

All fields are required
in case of identically named patients or multiple conditions.

Patient ID

Condition ID

Visit ID

Currently Active

Completion Status

Submit

Patient Condition History

PatientID	First Name	Last Name	Condition ID	Condition Description	Currently Active	Treatment Plan	Diagnosed Visit ID
1	Frank	Redbeard	1	Leg infection	0	Removal, replace with peg	1
1	Frank	Redbeard	2	Headache from dehydration	0	resolved prior to visit	1
2	Jack	Doe	3	Bruised ribs	1	rest	2
4	Karina	Nose	4	Ankle sprain	1	RICE	4
5	Hasan	Minhaj	5	Stress	1	vacation	5
6	Bruce	Wayne	6	Fractured ribs	1	Referred to hospital for immediate care	6
6	Bruce	Wayne	7	Possible spine abnormality	1	Referred to hospital for immediate care	6
6	Bruce	Wayne	8	Broken leg	1	Referred to hospital for immediate care	6
7	Pamela	Ialey	9	Unknown pathogen	1	Referred to lab for analysis	8
9	Philip	Fry	10	Patient is an imbecile	1	Don't sniff fingers after eating chicken	9
1	Frank	Redbeard	11	test	1	test	1
12	David	Pluskin	12	asdf	0	fdsa	11
1	Frank	Redbeard	13	A new Condition	1	None	1

Patient Based on Condition Results

For the column "Currently Active" - 0 means NO, 1 means YES.

First Name	Last Name	Patient ID	Condition Description	Condition ID	Currently Active
Bruce	Wayne	6	Broken leg	8	1

Patient Conditions: There are 4 forms on this webpage, “Log New Condition for Patient”, “Update Condition/Completion Status for Patient”, “Search Patient Condition History”, and “Find Patient Based on Condition”.

Log New Condition for Patient - This form is meant for existing patients only. All fields are required. Completing this form assumes that the condition is currently active. If fields are missing, the user will be prompted to check user input values. The Diagnosed Visit ID refers to the primary key Visit ID that is generated upon making a new appointment. You can refer back to the “Look Up Visits” form on the Patient Visits webpage for this value. Once the user has clicked on submit, there will be a notification that the rows have been updated and patient condition information was saved. The user is then prompted to record procedure which will redirect them to Patient Procedure.

Update Condition/Completion Status for Patient - This form is meant for physician use after a patient procedure has been committed. All fields are required to update a condition/completion status for a patient. The physician is prompted for their Patient ID to prevent discrepancies between identically named patients. Patient ID can be found by referring back to “Search for Patient” in the Patient Profile webpage. ConditionID can be found by referring to “Search Patient Condition History” further down this page. Visit ID can be found under incomplete visits in the “Look Up Visits” form on the Patient Visits webpage. Currently Active refers to the patient’s condition whereas Completion Status refers to a completed visit . For example, a patient that came in with an earache was prescribed ear drops and went home. The physician would then mark their condition as not currently active, and the completion status as complete for this single condition.

Search Patient Condition History - No input is required to run this search. The result will display an overview of all patients’ condition history. More user input values present in the fields will return a refined search. The results will include the patient ID, patient’s first and last name, condition ID, condition description, currently active status, treatment plan, and diagnosed visit ID, which is a reference to a patient’s visit ID.

Find Patient Based on Condition - No input is required to run this search. The result will display an overview of all patients sharing a particular condition. More user input values present in the fields will return a refined search. The results will include the patient’s first and last name, patient ID, condition description, condition ID, and currently active status.

Patient Procedures

Look Up Procedure

Leave blank for wildcard value

Log New Procedure

First Name	Last Name	Procedure Description	Procedure Date	Condition Code	Outcome	Physician ID
Bruce	Wayne	Cast	2019-10-16	11	good	2

First Name	Last Name	Procedure Description	Procedure Date	Physician
Frank	Redbeard	antibiotics	2010-09-01	Mario
Frank	Redbeard	tylenol	2010-09-01	Mario
Frank	Redbeard	wound clean/wrap	2010-09-01	Mario
Jack	Doe	Ice Wrap	2010-08-26	Stephen Strange
Jack	Doe	tylenol	2010-08-26	Meredith Grey
Karina	Nose	Ice Wrap	2010-09-02	Meredith Grey
Karina	Nose	tylenol	2010-09-02	Meredith Grey
Bruce	Wayne	tylenol	2010-07-16	Stephen Strange
Bruce	Wayne	splint	2010-07-16	Stephen Strange
Bruce	Wayne	tylenol	2010-07-16	Stephen Strange
Bruce	Wayne	splint	2010-07-16	Stephen Strange
Bruce	Wayne	Test 10 17	2019-10-15	Stephen Strange
Bruce	Wayne	Cast	2019-10-16	Mario

Patient Procedures: There are 2 forms on this webpage, “Log New Procedure” and “Look Up Procedure”.

Log New Procedure - This form is meant to allow physicians to report what kind of procedures, such as supplied medications, surgeries, references, etc., were done in addition to the treatment plan reported in the “Log New Condition for Patient” on the Patient Condition webpage. All fields are required. If fields are missing, the user will be prompted to check user input values. Once the physician has clicked on submit, there will be a notification that the rows have been updated

and is then prompted to update condition/completion status which will redirect them to Patient Conditions.

Look Up Procedure - No input is required to run this search. The result will display an overview of all procedures performed. More user input values present in the fields will return a refined search. The results will include the patient's first and last name, procedure description, procedure date, and physician.

Physician Directory

Look Up Physician Account Information

Physician ID is numeric

Phone number in format '###-###-####' without quotes.

To see complete directory, leave blank and search.

Physician ID	Physician Name	Phone Number
<input type="text" value="ie: 1"/>	<input type="text" value="ie: Stephen Strange"/>	<input type="text" value="ie: 555-555-5551"/>
<input type="button" value="Search"/>		

Physician Visit Log

Physician ID is numeric

If unsure, please leave blank.

Physician ID	Physician Name
<input type="text" value="ie: 2"/>	<input type="text" value="ie: Mario"/>
<input type="button" value="Search"/>	

Add New Physician

Phone number in format '###-###-####' without quotes.

Physician ID is generated automatically.

Physician Name	Phone Number
<input type="text" value="e"/>	<input type="text" value="ie: 555-555-5553"/>
<input type="button" value="Add Doctor"/>	

Physician ID	Physician Name	Contact Number
1	Stephen Strange	555-555-5551
2	Mario	555-555-5552
3	Meredith Grey	555-555-5553
4	e	123-123-1234

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Physician ID	Physician	First Name	Last Name	Visit Date
3	Meredith Grey	Dalia	Faria	2010-10-10
2	Mario	Philip	Fry	2010-09-04
3	Meredith Grey	Karina	Nose	2010-09-02
3	Meredith Grey	Hasan	Minhaj	2010-09-01
2	Mario	Frank	Redbeard	2010-09-01
3	Meredith Grey	Matka	Pluku	2010-08-29
3	Meredith Grey	Pamela	Isley	2010-08-29
3	Meredith Grey	Jack	Doe	2010-08-26
1	Stephen Strange	Jack	Doe	2010-08-26
1	Stephen Strange	Bruce	Wayne	2010-07-23
1	Stephen Strange	Bruce	Wayne	2010-07-16

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Physicians: There are 3 forms on this webpage, "Look Up Physician Account Information", "Physician Visit Log", and "Add New Physician".

Look Up Physician Account Information - Returns physician information based on user inputted fragments of physician data (ID, name, and/or contact number). IE: If you enter only the

physician ID, it will return the physician entry tied to that profile. If no input is given, a complete directory of physicians is returned.

Physician Visit Log - Allows users to input a physician ID and/or physician name. With this information, the servlet will return a complete list of the physician's visit history, including visit date and patient.

Add New Physician - Allows users to add in a new physician into the physician data table. It requires the user to input at least a name. The physician ID is auto incremented and does not require user input.

Recent Occurrences

[Directory](#)

Last Name	First Name	Condition	Visit Date
Isley	Pamela	Unknown pathogen	2019-10-15
Fry	Philip	Patient is an imbecile	2010-09-04
Nose	Karina	Ankle sprain	2010-09-02
Redbeard	Frank	test	2010-09-01
Minhaj	Hasan	Stress	2010-09-01
Isley	Pamela	Unknown pathogen	2010-08-29
Doe	Jack	Bruised ribs	2010-08-26
Wayne	Bruce	Fractured ribs	2010-07-23
Wayne	Bruce	Possible spine abnormality	2010-07-23
Wayne	Bruce	Broken leg	2010-07-23
Wayne	Bruce	Possible spine abnormality	2010-07-16
Wayne	Bruce	Broken leg	2010-07-16
Wayne	Bruce	Fractured ribs	2010-07-16

Recent Occurrences: This form is found on the Home webpage. There are no user input fields required. The user can simply click on Recent Occurrences to see a view of all the most recent conditions. The results will include the patient's last name, first name, condition, and visit date.