

DBMS PROJECT



DATABASE CREATORS TEAM

TEAM MEMBERS:

- | | | |
|------------------------------|---|-------------|
| 1. Banoth Chethan Naik | - | 2020CS10333 |
| 2. Varanasi Yaswanth Krishna | - | 2020CS10406 |
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APPLICATION FRONT END DESIGN

There are four section in our design:

- 1.DATA RELATED TO THE DISEASES
- 2.FINDING DISEASES
- 3.SYMPTOMS
- 4.INSERT AND UPDATE

DATA RELATED TO THE DISEASES

Diseases_details

Treatment_details

Prevention_details

Medicine_details

Identification_Test

Symptoms

Vaccine

Transmission_modes

SEARCHING NAMES

List_of_Diseases

List_of_Treatments

List_of_Transmission_modes

List_of_Medicines

List_of_Vaccines

List_of_Identification_tests

List_of_symptoms

FINDING DISEASES

Treatment_description

Identification_test_description

Medicine_Dosage

Disease_by_Medicine

Disease_by_Treatment

Disease_by_Transmission_modes

Disease_by_Vaccine

Disease_by_Identification_test

SYMPTOMS

Disease_Predictor

Disease_from_symptoms

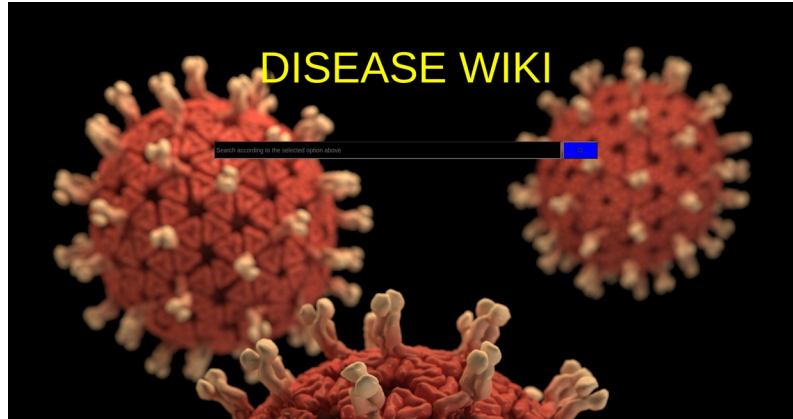
INSERT AND UPDATE

Contribute towards our database

Supported Transactions

- We had given the all the transactions in the below slides

Diseases_details

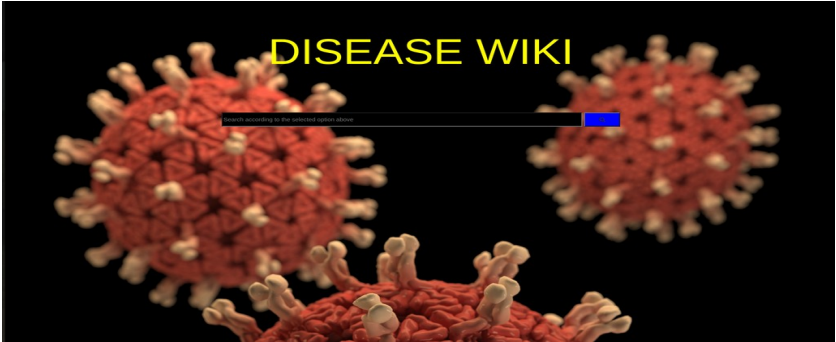
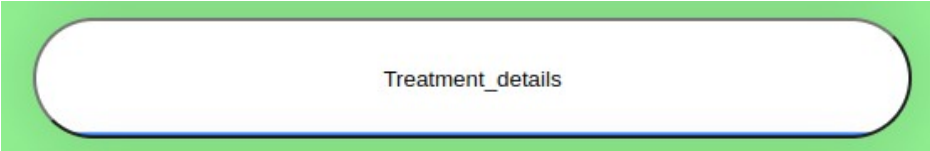


- BY CLICKING ON ABOVE ICON YOU WILL BE DIRECTED TO THIS. IF YOU ENTER THE NAME OF THE DISEASE IN THE GIVEN SEARCH BAR YOU WILL BE DIRECTED TO THE PAGE GIVEN BELOW

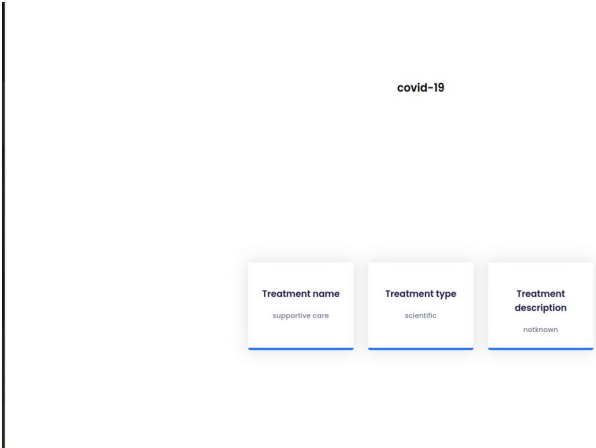
covid-19

Born country	Born year	Mortality rate
china	2019	varies depending on population and healthcare resources

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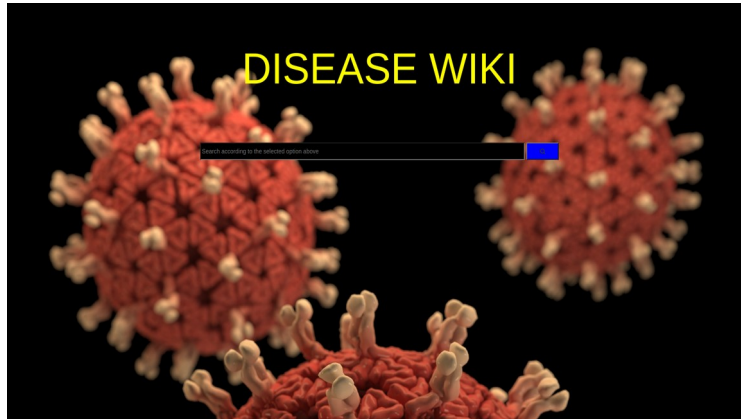


- BY CLICKING ON ABOVE ICON YOU WILL BE DIRECTED TO THIS. IF YOU ENTER THE NAME OF THE DISEASE IN THE GIVEN SEARCH BAR YOU WILL BE DIRECTED TO THE PAGE GIVEN BELOW



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Prevention_details



- BY CLICKING ON ABOVE ICON YOU WILL BE DIRECTED TO THIS. IF YOU ENTER THE NAME OF THE DISEASE IN THE GIVEN SEARCH BAR YOU WILL BE DIRECTED TO THE PAGE GIVEN BELOW

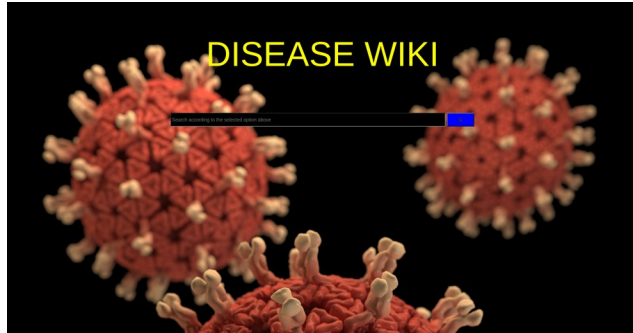
covid-19

Preventional Measures

Practice good hygiene to avoid spreading the virus.

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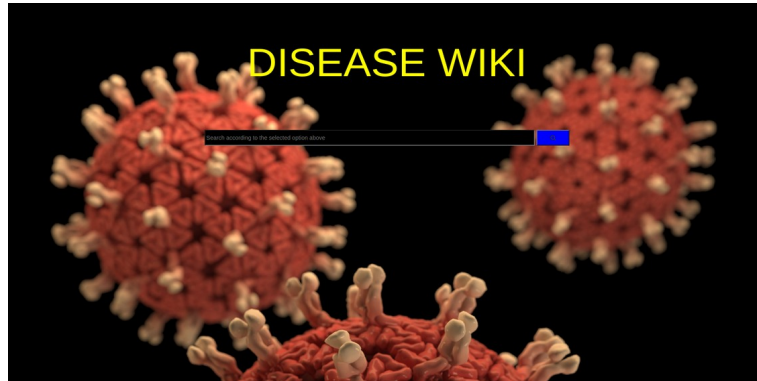
Medicine_details



- BY CLICKING ON ABOVE ICON YOU WILL BE DIRECTED TO THIS. IF YOU ENTER THE NAME OF THE DISEASE IN THE GIVEN SEARCH BAR YOU WILL BE DIRECTED TO THE PAGE GIVEN BELOW
- FINALLY WE ARE DIRECTED TO THIS PAGE

covid-19

Medicine Name	Prescription	Side effects
n/a	Doctor consultation required	No data available

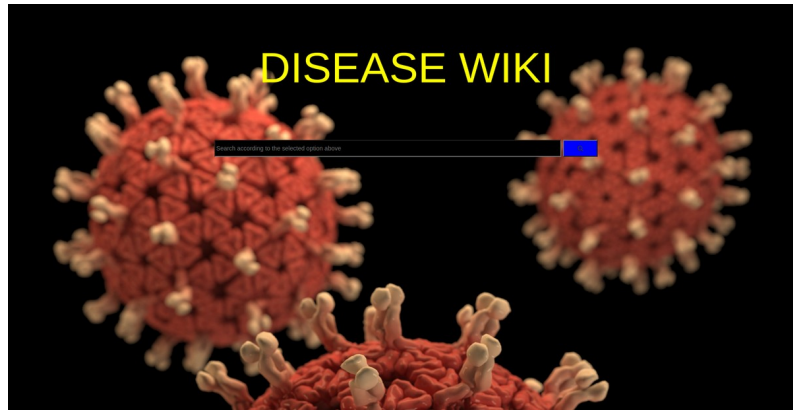


- BY CLICKING ON ABOVE ICON YOU WILL BE DIRECTED TO THIS. IF YOU ENTER THE NAME OF THE DISEASE IN THE GIVEN SEARCH BAR YOU WILL BE DIRECTED TO THE PAGE GIVEN BELOW
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covid-19

Identification test name physical examination
Identification test description Athelia is a rare congenital condition where one or both nipples are missing. It is

Symptoms

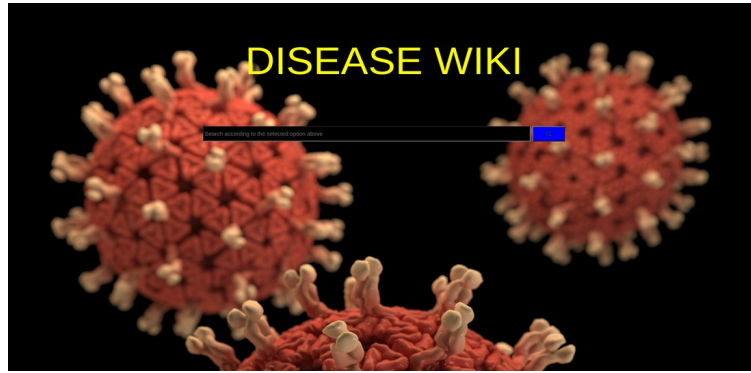
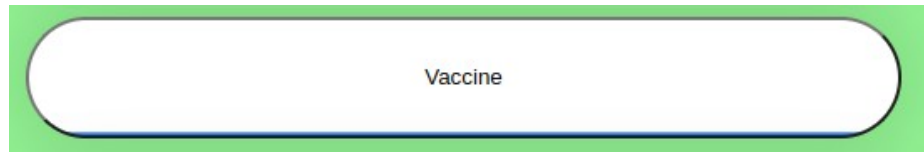


- BY CLICKING ON ABOVE ICON YOU WILL BE DIRECTED TO THIS. IF YOU ENTER THE NAME OF THE DISEASE IN THE GIVEN SEARCH BAR YOU WILL BE DIRECTED TO THE PAGE GIVEN BELOW
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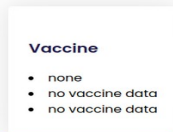
covid-19

Symptoms

- characterized by respiratory symptoms
- fatigue

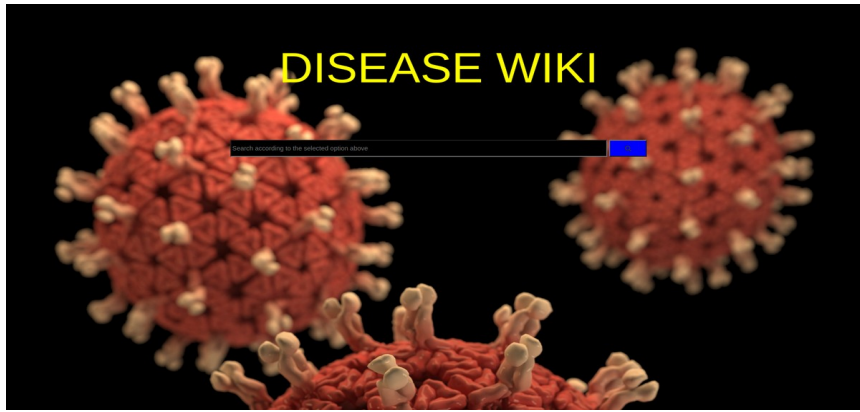


malaria



- BY CLICKING ON ABOVE ICON YOU WILL BE DIRECTED TO THIS. IF YOU ENTER THE NAME OF THE DISEASE IN THE GIVEN SEARCH BAR YOU WILL BE DIRECTED TO THE PAGE GIVEN BELOW
- FINALLY WE ARE DIRECTED TO THIS PAGE

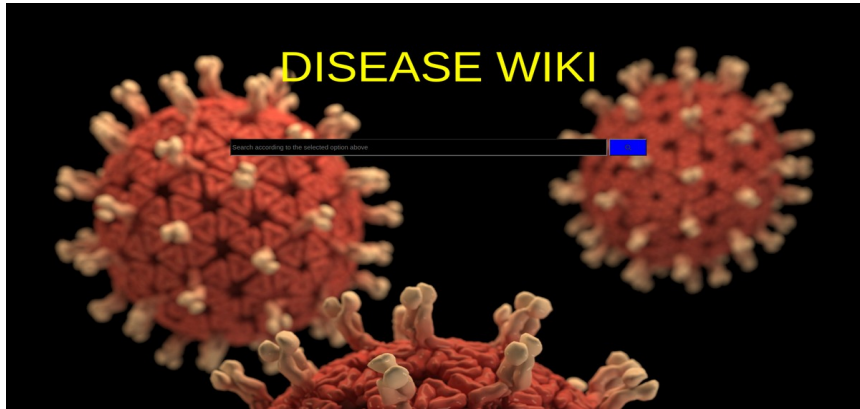
Transmission_modes



- BY CLICKING ON ABOVE ICON YOU WILL BE DIRECTED TO THIS. IF YOU ENTER THE NAME OF THE DISEASE IN THE GIVEN SEARCH BAR YOU WILL BE DIRECTED TO THE PAGE GIVEN BELOW
- FINALLY WE ARE DIRECTED TO THIS PAGE

covid-19

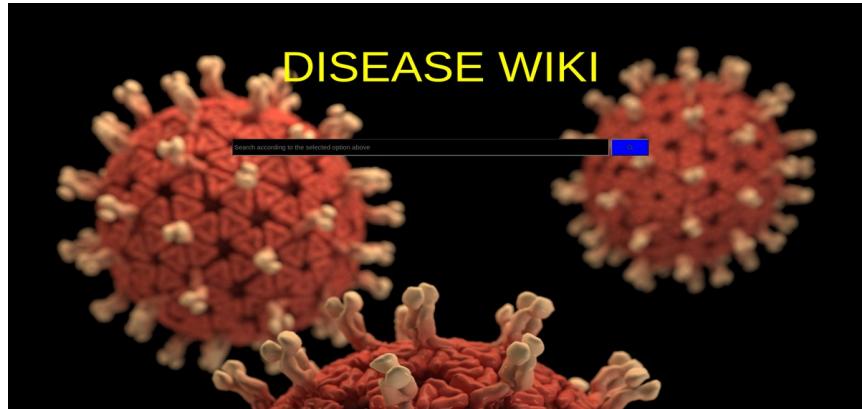
Name of Transmission modes
transmission through respiratory droplets
Transmission modes description
notknown



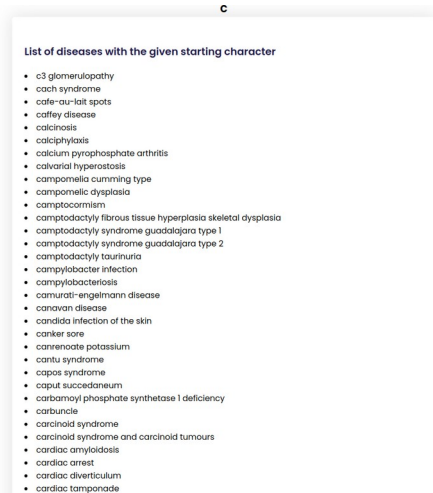
- BY CLICKING ON ABOVE ICON YOU WILL BE DIRECTED TO THIS. IF YOU ENTER THE NAME OF THE DISEASE IN THE GIVEN SEARCH BAR YOU WILL BE DIRECTED TO THE PAGE GIVEN BELOW
- FINALLY WE ARE DIRECTED TO THIS PAGE

covid-19

Born country china	Born year 2019	Mortality rate varies depending on population and healthcare resources
Symptoms fever	Treatment n/a	Medicine Doctor consultant required
Prevention No data available	Vaccine <ul style="list-style-type: none">• covishield• covaccine	



- BY CLICKING ON ABOVE ICON YOU WILL BE DIRECTED TO THIS. IF YOU ENTER THE FIRST CHARACTER OF NAME OF THE DISEASE IN THE GIVEN SEARCH BAR YOU WILL BE DIRECTED TO THE PAGE GIVEN BELOW



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List_of_Treatments

DISEASE WIKI

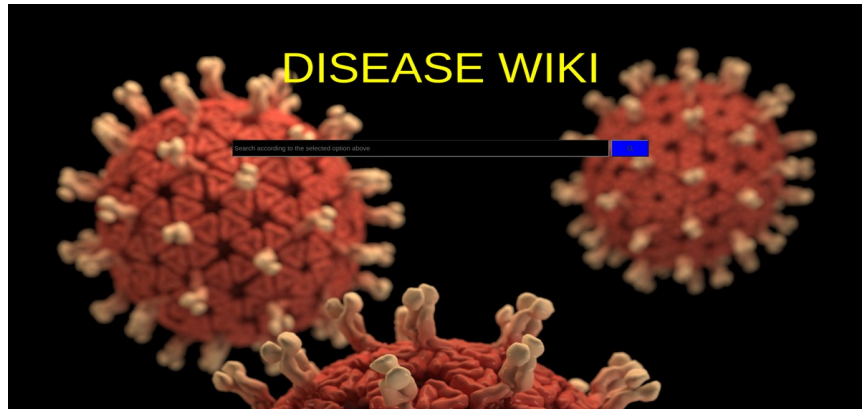
Search according to the selected option above

c

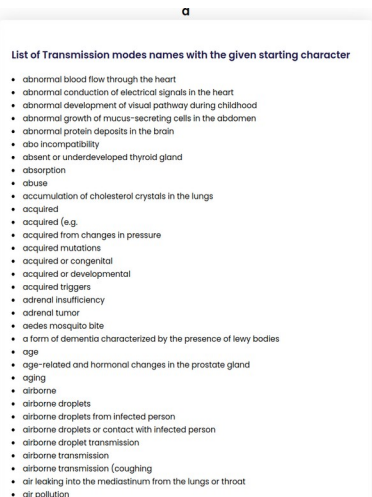
List of Treatment names with the given starting character

- Calcium and vitamin D supplements
- Calcium supplements
- Canolith repositioning maneuvers
- Cardiopulmonary resuscitation
- Cardiopulmonary resuscitation (CPR)
- Carnitine supplements
- Case-by-case management
- Catheterization
- Chelation therapy
- Chemotherapy
- Chemotherapy and stem cell transplant
- Cholecystectomy
- Close monitoring
- Clot-busting drugs
- Coenzyme Q10 supplementation
- Compression
- Compression garments
- Compression stockings
- Compression therapy
- Conservative management
- Conservative measures such as warm baths
- Continuous positive airway pressure (CPAP)
- Continuous Positive Airway Pressure (CPAP) therapy
- Control blood pressure
- Copper replacement therapy
- Copper supplementation
- Corneal transplant
- Corneal transplantation
- Corrective surgeries
- Corticosteroid eye drops
- Corticosteroid injections
- Corticosteroid medication
- Cosmetic interventions (e.g. rhinoplasty)

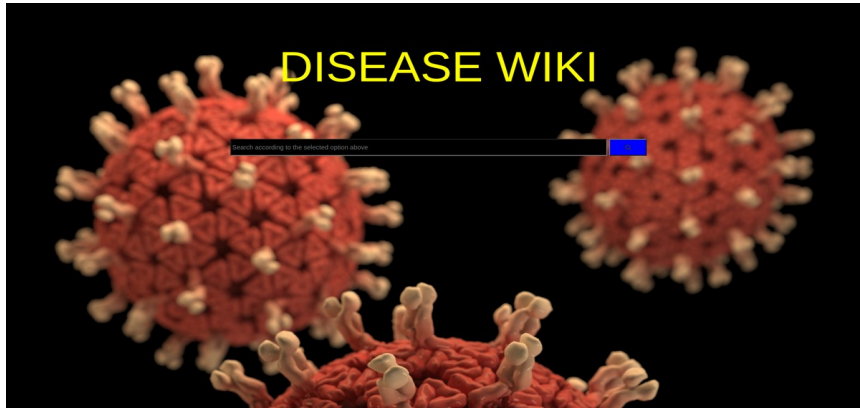
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- FINALLY WE ARE DIRECTED TO THIS PAGE



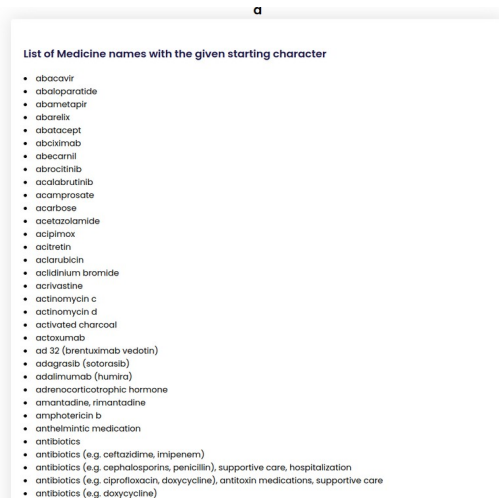
- BY CLICKING ON ABOVE ICON YOU WILL BE DIRECTED TO THIS. IF YOU ENTER THE FIRST CHARACTER OF NAME OF THE TRANSMISSION_MODE IN THE GIVEN SEARCH BAR YOU WILL BE DIRECTED TO THE PAGE GIVEN BELOW

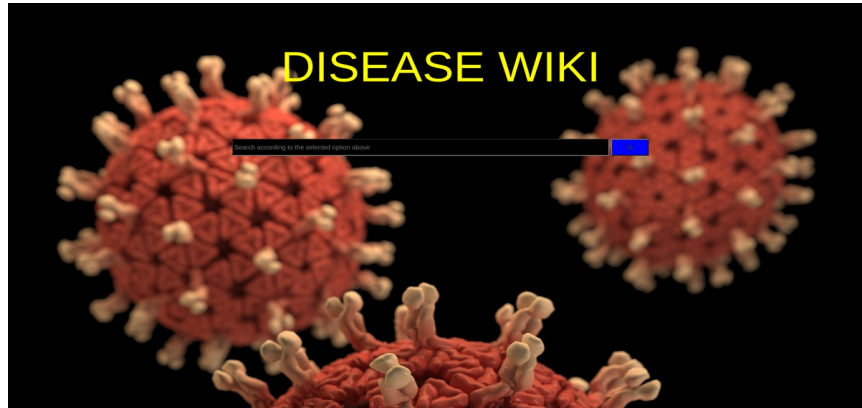


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- BY CLICKING ON ABOVE ICON YOU WILL BE DIRECTED TO THIS. IF YOU ENTER THE FIRST CHARACTER OF NAME OF THE MEDICINE IN THE GIVEN SEARCH BAR YOU WILL BE DIRECTED TO THE PAGE GIVEN BELOW
- FINALLY WE ARE DIRECTED TO THIS PAGE



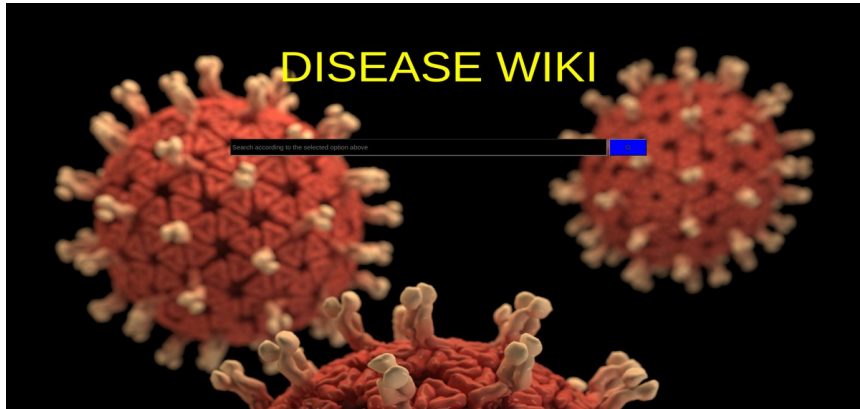


n

List of Vaccine names with the given starting character

- none
- no specific vaccine available

- BY CLICKING ON ABOVE ICON YOU WILL BE DIRECTED TO THIS. IF YOU ENTER THE FIRST CHARACTER OF NAME OF THE VACCINE IN THE GIVEN SEARCH BAR YOU WILL BE DIRECTED TO THE PAGE GIVEN BELOW
- FINALLY WE ARE DIRECTED TO THIS PAGE



b

List of Identification_test names with the given starting character

- bacterial culture and sensitivity testing
- biopsy
- biopsy, imaging studies
- biopsy, imaging studies, blood tests
- biopsy of affected tissues to identify amyloid deposits
- blood and urine mercury levels, clinical examination
- blood culture and identification tests
- blood examination
- blood examination, genetic testing
- blood gas analysis
- blood gas analysis, laboratory tests
- blood test
- blood tests
- blood tests, bone marrow biopsy
- blood tests, cerebrospinal fluid analysis

- BY CLICKING ON ABOVE ICON YOU WILL BE DIRECTED TO THIS. IF YOU ENTER THE FIRST CHARACTER OF NAME OF THE IDENTIFICATION_TEST IN THE GIVEN SEARCH BAR YOU WILL BE DIRECTED TO THE PAGE GIVEN BELOW
- FINALLY WE ARE DIRECTED TO THIS PAGE

List_of_symptoms

DISEASE WIKI

Search according to the selected option above

List of Symptoms names with the given starting character

- abdomen
- abdominal bloating
- abdominal cramps
- abdominal discomfort
- abdominal distension
- abdominal mass
- abdominal obesity
- abdominal or back pain
- abdominal or flank pain
- abdominal or pelvic pain
- abdominal pain
- abdominal pain and nausea
- abdominal swelling
- abdominal swelling and pain
- abdominal wall defects
- a benign
- a benign bone tumor that arises from cartilage cells
- a benign skin lesion composed of small blood vessels
- a benign tumor composed of cartilage cells
- abnormal
- abnormal accumulation of amyloid protein in blood vessels of the brain
- abnormal accumulation of fluid in fetal tissues
- abnormal accumulation of fluid in the abdominal cavity
- abnormal appearance of the penis
- abnormal arm bone development
- abnormal arrangement of internal organs
- abnormal bleeding
- abnormal blood clotting
- abnormal blood flow
- abnormal blood vessel growth in the eye
- abnormal blood vessels
- abnormal blood vessels in the eye
- abnormal body odor

- BY CLICKING ON ABOVE ICON YOU WILL BE DIRECTED TO THIS. IF YOU ENTER THE FIRST CHARACTER OF NAME OF THE SYMPTOMS IN THE GIVEN SEARCH BAR YOU WILL BE DIRECTED TO THE PAGE GIVEN BELOW
- FINALLY WE ARE DIRECTED TO THIS PAGE

Treatment_description

DISEASE WIKI

Search according to the selected option above

surgery

Treatment name

surgery

Treatment type

scientific

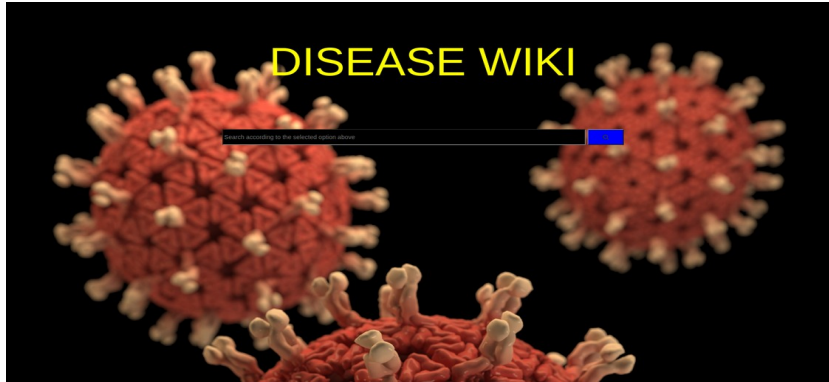
Treatment
description

notknown

- BY CLICKING ON ABOVE ICON YOU WILL BE DIRECTED TO THIS. IF YOU ENTER THE NAME OF TREATMENT IN THE GIVEN SEARCH BAR YOU WILL BE DIRECTED TO THE PAGE GIVEN BELOW

- FINALLY WE ARE DIRECTED TO THIS PAGE

Identification_test_description



- BY CLICKING ON ABOVE ICON YOU WILL BE DIRECTED TO THIS. IF YOU ENTER THE NAME OF THE IDENTIFICATION TEST IN THE GIVEN SEARCH BAR YOU WILL BE DIRECTED TO THE PAGE GIVEN BELOW
- FINALLY WE ARE DIRECTED TO THIS PAGE

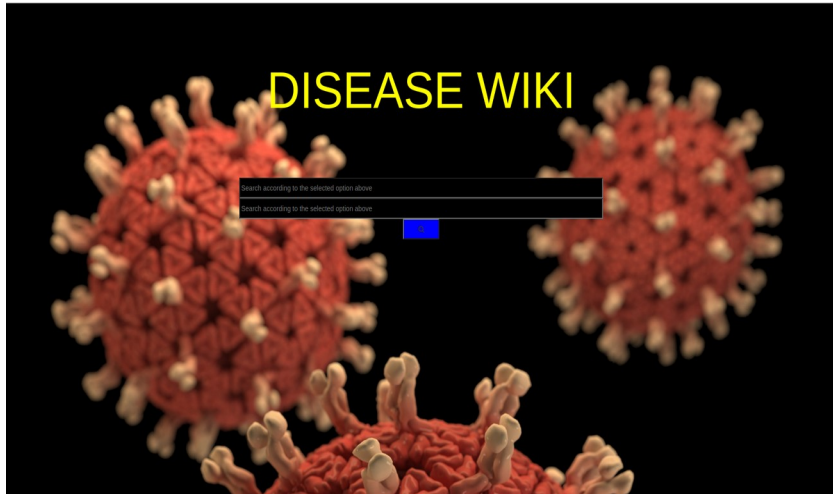
genetic testing for mutations in genes associated with thrombotic microangiopathy

Identification_test name

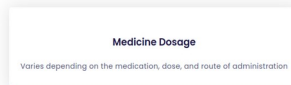
genetic testing for mutations in genes associated with thrombotic microangiopathy

Identification_test description

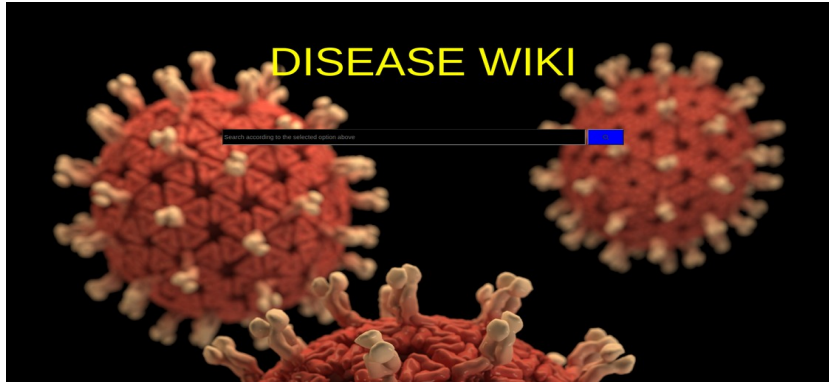
Familial thrombotic microangiopathy is identified through genetic testing for mutations in specific genes known to be associated with this condition.



aa amyloidosis--colchicine, corticosteroids, immunosuppressive drugs



- BY CLICKING ON ABOVE ICON YOU WILL BE DIRECTED TO THIS. IF YOU ENTER THE NAME OF THE MEDICINE AND THE NAME OF THE DISEASE IN THE GIVEN SEARCH BAR YOU WILL BE DIRECTED TO THE PAGE GIVEN BELOW
- FINALLY WE ARE DIRECTED TO THIS PAGE

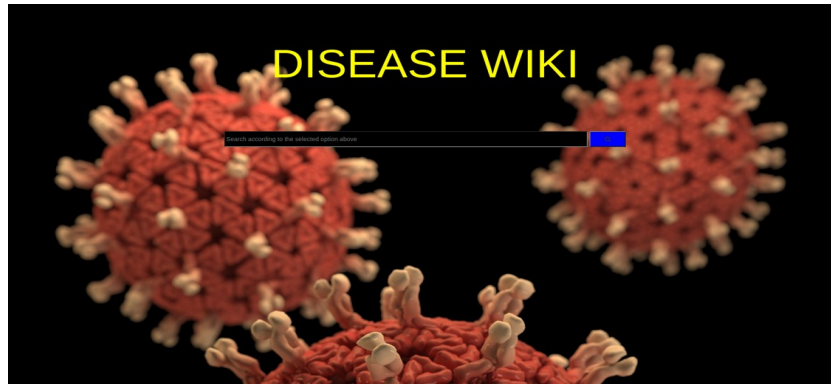


- BY CLICKING ON ABOVE ICON YOU WILL BE DIRECTED TO THIS. IF YOU ENTER THE NAME OF THE MEDICINE IN THE GIVEN SEARCH BAR YOU WILL BE DIRECTED TO THE PAGE GIVEN BELOW
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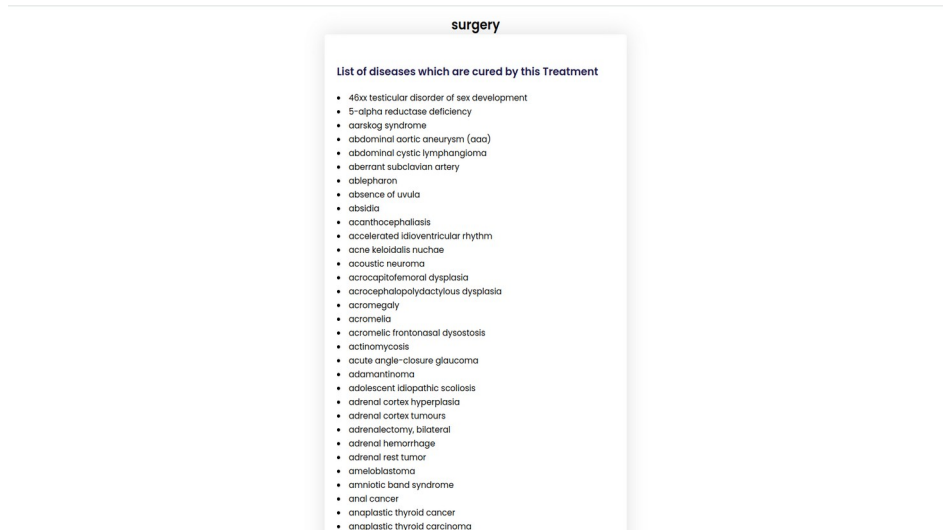
eculizumab

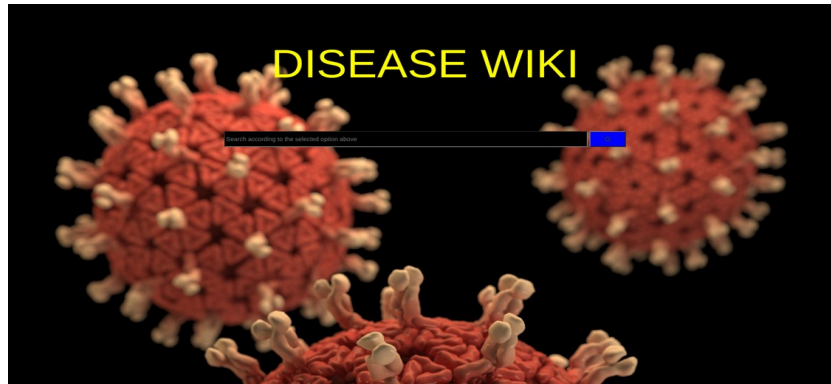
List of diseases which are cured by this medicine

- acne
- alcohols
- barrett's esophagus
 - bell's palsy
- chronic pancreatitis
- excessive daytime sleepiness
- familial thrombotic microangiopathy
 - headache
- kearns-sayre syndrome
 - osteoarthritis
- prostate cancer

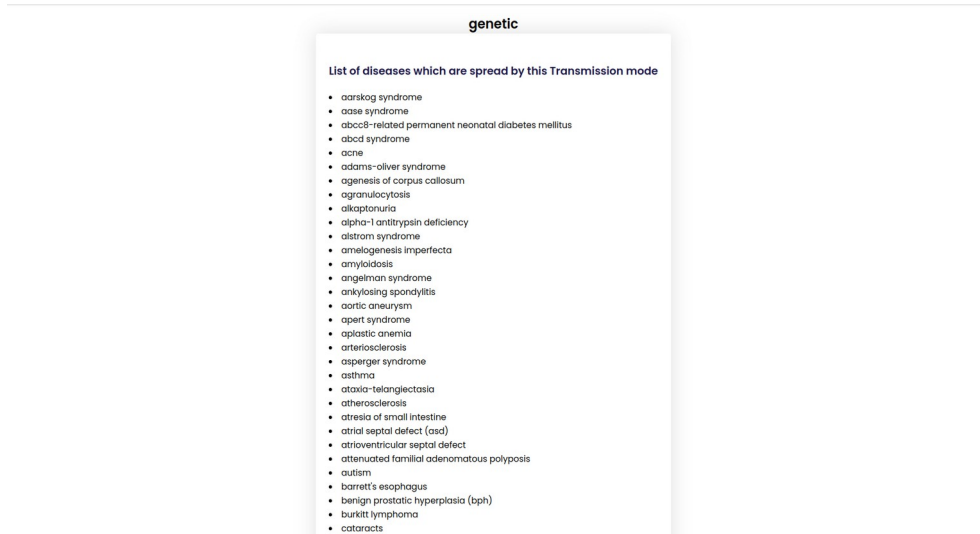


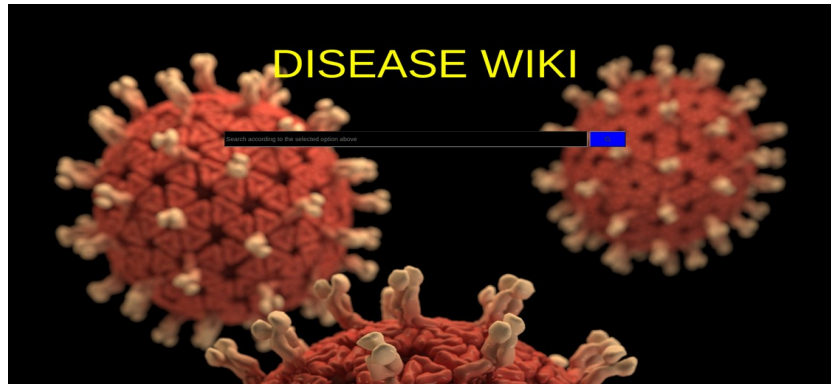
- BY CLICKING ON ABOVE ICON YOU WILL BE DIRECTED TO THIS. IF YOU ENTER THE NAME OF THE TREATMENT IN THE GIVEN SEARCH BAR YOU WILL BE DIRECTED TO THE PAGE GIVEN BELOW
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- BY CLICKING ON ABOVE ICON YOU WILL BE DIRECTED TO THIS. IF YOU ENTER THE NAME OF THE TRANSMISSION MODE IN THE GIVEN SEARCH BAR YOU WILL BE DIRECTED TO THE PAGE GIVEN BELOW
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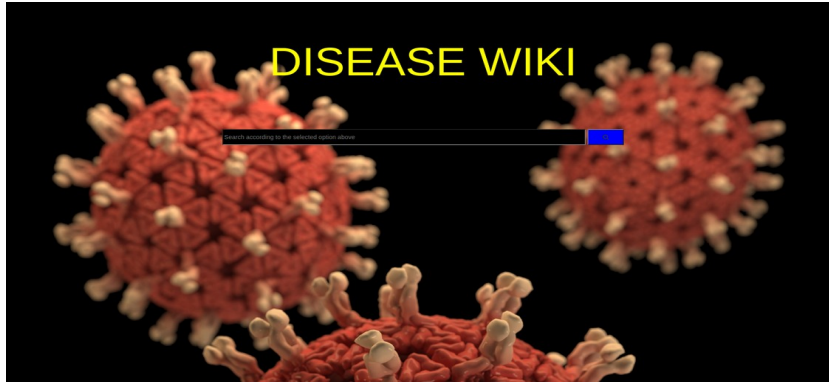


none

List of diseases which are cured by this Vaccine

- myoclonic epilepsy associated with ragged red fibers
- sphincter of oddi dysfunction
- pelizaeus-merzbacher disease
- fetal and neonatal alloimmune thrombocytopenia
- limb-girdle muscular dystrophy type 2a
- albinism
- allergic bronchopulmonary aspergillosis
- fibrocystic breast disease
- burning mouth syndrome
- parathyroid cancer
- paroxysmal nocturnal hemoglobinuria (pnh)
- fibrochondrogenesis
- breast infection
- allan-herndon-dudley syndrome
- tuberculous meningitis
- plague
- rabies
- high blood pressure in infants
- monkeypox
- fibrosarcoma
- lichen planus
- diabetes
- congenital hepatic fibrosis
- acanthocheilonemiasis
- alagille syndrome
- brown-sequard syndrome
- sturge-weber syndrome
- high arch
- mucopolysaccharidosis type 7 (mns-vii, slv syndrome)

- BY CLICKING ON ABOVE ICON YOU WILL BE DIRECTED TO THIS. IF YOU ENTER THE NAME OF THE VACCINE IN THE GIVEN SEARCH BAR YOU WILL BE DIRECTED TO THE PAGE GIVEN BELOW
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- BY CLICKING ON ABOVE ICON YOU WILL BE DIRECTED TO THIS. IF YOU ENTER THE NAME OF THE IDENTIFICATION_TEST IN THE GIVEN SEARCH BAR YOU WILL BE DIRECTED TO THE PAGE GIVEN BELOW
- FINALLY WE ARE DIRECTED TO THIS PAGE

genetic testing for mutations in genes associated with thrombotic microangiopathy

List of diseases which are found by this identification test

- acne
- alcohol
- barrett's esophagus
- bell's palsy
- chronic pancreatitis
- excessive daytime sleepiness
- familial thrombotic microangiopathy
- headache
- lewis-royce syndrome
- osteoarthritis
- prostate cancer

Disease_Predictor

Disease predictor

Choose the possible symptoms from our database so that we can predict the possible diseases according to our database

name

name

name

name

name

name

name

Submit

List of possible diseases according to your symptoms

List of possible diseases according to your symptoms

- eosinophilic esophagitis
- esophagitis
- gastroesophageal reflux
- gastroesophageal reflux disease
- hiatus hernia
- lower esophageal ring
- stroke

- BY CLICKING ON ABOVE ICON YOU WILL BE DIRECTED TO THIS. IF YOU ENTER THE SYMPTOMS AND CLICK ON SUBMIT IT WILL OUTPUT ALL THE NAMES OF DISEASES WITH WHICH ATLEAST ONE OF THE SYMPTOMS MATCH
- FINALLY WE ARE DIRECTED TO THIS PAGE

Disease_from_symptoms

Disease predictor

Choose the possible symptoms from our database so that we can predict the possible diseases according to our database

none

none

none

none

none

none

Submit

List of possible diseases according to your symptoms

List of possible diseases according to your symptoms

- abo incompatibility
- abrin
- absidia
- acanthocheilonemiasis
- acid fast bacillus
- acquired agranulocytosis
- actinobacillosis
- acute disseminated encephalomyelitis
- acute eosinophilic pneumonia
- acute erythroblastic leukemia
- acute febrile neutrophilic dermatosis
- acute generalized exanthematous pustulosis
- acute interstitial pneumonia
- acute lymphoblastic leukemia
- acute myeloid leukemia
- acute pancreatitis
- acute phase reaction
- acute promyelocytic leukemia
- acute pulmonary histoplasmosis
- acyclovir
- adenosine deaminase 2 deficiency
- adult-onset still's disease
- adult still's disease
- aedes mosquito
- aeromonas hydrophila
- african trypanosomiasis
- agranulocytosis
- amebiasis
- amebic liver abscess

- BY CLICKING ON ABOVE ICON YOU WILL BE DIRECTED TO THIS. IF YOU ENTER THE SYMPTOMS AND CLICK ON SUBMIT IT WILL OUTPUT ALL THE NAMES OF DISEASES WITH WHICH ALL OF THE GIVEN SYMPTOMS MATCH
- FINALLY WE ARE DIRECTED TO THIS PAGE

Contribute towards our database

Insert the details of disease into the database

Disease name	<input type="text"/>
Born Country	<input type="text"/>
Born Year	<input type="text"/>
Mortality rate	<input type="text"/>
Treatment name	<input type="text"/>
Treatment type	<input type="text"/>
Treatment description	<input type="text"/>
Prevention description	<input type="text"/>
Medicine name	<input type="text"/>
Medicine prescription	<input type="text"/>

THANK YOU!

Thanks for contributing towards our database .It means a lot to us, just like you do! We really appreciate you giving us a moment of your time today. Thanks for being you.

- BY CLICKING ON ABOVE ICON YOU WILL BE DIRECTED TO THIS. YOU CAN ENTER ALL THE DETAILS ABOUT A NEW DISEASE AND CLICK ON SUBMIT. AND ALL DETAILS RELATED TO THAT NEW DISEASE WILL BE ADDED TO OUR DATA BASE
- FINALLY WE ARE DIRECTED TO THIS PAGE

Architecture of The System

- First of all for the front end part we used flask framewok and for designing used bootstrap and css
- To connect to our database in the flask server used the psypgsql-binary library.
- So in total we have 26 queries whose behaviour is described in above pictures given in the slide
- In terms of features we have two kind one is information retrievel and the other one is information insertion and updation.

Demonstration plan

- Process of running:
- First we will run the python script of flask which will start the server connect to the database then render the start page of our app which is described above in pictures
- On the mainpage there are many options available from that we will select a option which corresponds to a query of our database then it will redirect to the corresponding query page in which user will input the data according to the option he selected.

Architecture of The System

- Now every page of our app is binded with a python function which handles the corresponding query by executing the commands in the database using the psyco2-binary library and similarly this happens to other query handling proceses.

Git Link