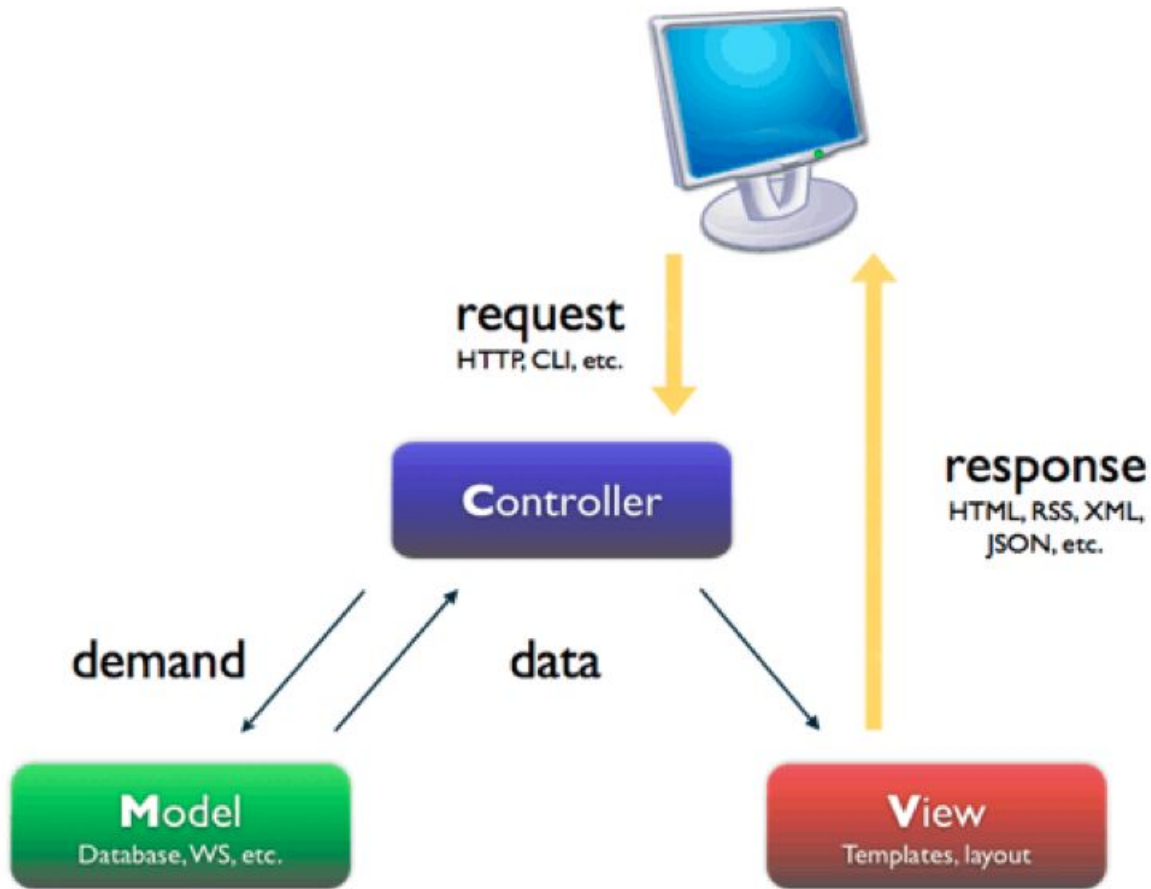




```
from flask import Flask, render_template

app = Flask(__name__)

@app.route("/")
def index():
    return render_template("index.html")
```





Frosh IMs

Intramural Sports
for the class of 2007

- Calendar
- Champions
- FAQ's
- Guide to Frosh IMs
- Headlines
- How to get involved
- Photos
- Point tallies
- Records
- Register
- Registrants
- Rules
- Schedules and results
- Whom to contact

Headlines

Past headlines

For headlines posted prior to the past seven days, click [here](#).

sessions



Sign in

to continue to Gmail

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Next

```
GET / HTTP/1.1  
Host: gmail.com
```

```
...
```

HTTP/1.1 200 OK

Content-Type: text/html

...

HTTP/1.1 200 OK

Content-Type: text/html

Set-Cookie: session=value

...

```
GET / HTTP/1.1  
Host: gmail.com
```

```
...
```

GET / HTTP/1.1

Host: gmail.com

Cookie: session=value

...

databases

Comments Share

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fx

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SQL

BLOB

INTEGER

NUMERIC

REAL

TEXT

BLOB

INTEGER

 smallint

 integer

 bigint

NUMERIC

REAL

TEXT

BLOB

INTEGER

NUMERIC

REAL

 real

 double precision

TEXT

BLOB

INTEGER

NUMERIC

boolean

date

datetime

numeric(scale,precision)

time

timestamp

REAL

TEXT

BLOB

INTEGER

NUMERIC

REAL

TEXT

char(n)

varchar(n)

text

CREATE ...

DELETE ...

INSERT ...

SELECT ...

UPDATE ...

...

sqlite3

```
CREATE TABLE 'registrants'  
( 'id' integer PRIMARY KEY, 'name' varchar(255), 'dorm' varchar(255) )
```

```
INSERT INTO "registrants" ("id", "name", "dorm")  
VALUES(1, 'David', 'Matthews')
```

```
SELECT * FROM "registrants"
```

```
UPDATE "registrants" SET "name" = 'David Malan' WHERE id = 1
```

```
DELETE FROM "registrants" WHERE id = 1
```

```
...
```

JOIN
WHERE

...

PRIMARY KEY

UNIQUE

INDEX

FOREIGN KEY

AUTOINCREMENT

NOT NULL

AVG

COUNT

MAX

MIN

SUM

...

```
db = cs50.SQL("sqlite:///lecture.db")
```

race conditions

BEGIN TRANSACTION

COMMIT

ROLLBACK

SQL injection attacks

Login required

You may establish Yale authentication now in order to access protected services later.

NetID:

Password:

Warn me before logging me in to other sites.

Login

Please Log In

To log in, please select your login type from the tabs below and enter your credentials. If you're not sure what login type to use, [look here for how you login with HarvardKey](#).

HarvardKey	HUID	eCommons	XID
------------	------	----------	-----

Login Name (in the form of an email address):

Password:

Login

Please Log In

To log in, please select your login type from the tabs below and enter your credentials. If you're not sure what login type to use, [look here for how you login with HarvardKey](#).

HarvardKey	HUID	eCommons	XID
------------	------	----------	-----

Login Name (in the form of an email address):

Password:

Login

```
username = request.form.get("username")
```

```
password = request.form.get("password")
```

```
db.execute(f"SELECT * FROM users
```

```
WHERE username = '{username}' AND password = '{password}')
```

```
username = request.form.get("username")
```

```
password = request.form.get("password")
```

```
db.execute("SELECT * FROM users
```

```
WHERE username = 'me@examplemailprovider.com' AND password = '' OR '1' = '1'")
```

```
username = request.form.get("username")  
password = request.form.get("password")
```

```
db.execute("SELECT * FROM users  
WHERE username = :username AND password = :password",  
username=username, password=password)
```

```
username = request.form.get("username")
```

```
password = request.form.get("password")
```

```
db.execute("SELECT * FROM users
```

```
WHERE username = 'me@examplemailprovider.com' AND password = '\ ' OR \'1\' = \'1'")
```



ZU 0666', 0, 0); DROP DATABASE TABLICE;

PASKOWSKI

ZU 0666', 0, 0); DROP DATABASE TABLE;

PL PASIŃKOWSKI D. 114 M. Białe Błota 4 25-07-948

HI, THIS IS
YOUR SON'S SCHOOL.
WE'RE HAVING SOME
COMPUTER TROUBLE.



OH, DEAR - DID HE
BREAK SOMETHING?
IN A WAY -)



DID YOU REALLY
NAME YOUR SON
Robert'); DROP
TABLE Students;-- ?



OH, YES. LITTLE
BOBBY TABLES,
WE CALL HIM.

WELL, WE'VE LOST THIS
YEAR'S STUDENT RECORDS.
I HOPE YOU'RE HAPPY.



AND I HOPE
YOU'VE LEARNED
TO SANITIZE YOUR
DATABASE INPUTS.



C\$50 Finance: Portfolio



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C\$50 Finance

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Symbol	Name	Shares	Price	TOTAL
NFLX	Netflix Inc.	1	\$301.78	\$301.78
CASH				\$9,698.22
				\$10,000.00

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This is CS50