

# Marvel Cinematic Universe

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## 1 Introduction

The theme of web app is Marvel Cinematic Universe. The Marvel Cinematic Universe (MCU) is a shared universe that is based on a series of superhero films and characters that appear in American comic books published by Marvel Comics. The online catalogue is a catalogue of Marvel Cinematic Universe. The web app included four modules such as 'home-page', 'movies', 'characters' and 'login'. There are also some branches of these main modules. People could login and find information of Marvel movies or characters around the Marvel Cinematic Universe.

## 2 Design

The part of report would show the design of this web app in two aspects including page layout and function.

### 2.1 Page layout

The reasons that modules were designed in this web app would be discussed. About the theme of web app, people would often consider some movies and characters. Besides, there might be some people do not know the Marvel Cinematic Universe before search the website. In addition, they might would like to create a personal homepage, so they need to login the web app. From the above situation, there are four basic web pages to be designed including 'home', 'movies', 'characters' and 'login'. Next, the page layout and branches of these pages would be showed, respectively.

The shared part is navigation bar, it is divided into six parts, including web icons, home button, movie button, characters button, search box and login button. The characters button is a dropdown menu, it includes a list of top Marvel heroes. All the button can link to their own page.

In the homepage, there is a jumbotron to introduce Marvel Cinematic Universe. Moreover, there are two subfields and pictures to show the other details.

In the 'movies' page, there is a carousel to show some pictures about the movie news and a list of movies around the universe with synopsis of each movies, in addition, there is a button under each synopsis of movies, people can link to another page and view more details.

In the 'characters' page, there is a list of characters and a list group on the right. And the same layout with 'movies' page is the part of synopses and the buttons link to the detail pages. About the detail page, there would be some pictures and information in a neat layout.

In the login page, there is a simple login interface in the center. People could write their information into the box, and click the login button under this box. And there also a sign-up page, it has a similar layout with login page.

### 2.2 Function

About the function that this web app achieved will be discussed in this part. Firstly, this web app uses the templates, static files and bootstrap to design a well style and layout. And there are some other functions and their codes will be showed, respectively.

In the web app, people can browse different pages smoothly. And at the login page, people can enter their information which is requested. If they enter in the correct information and click the login button, they will go to the home page, however, if they enter the wrong information, they will still stay in the login page, and there will be a sentence shows: "Invalid credentials. Try Again." under the button to remind people. Moreover, because some subpages did not finish design, there are some link button could not achieve. If people go to this page, the sentence "Sorry, couldn't find your page, this web page is designing... :D" will be showed on this page. In order to achieve these functions, Python Flask: requests, responses, redirects and errors were used to create this web app. Finally, the main codes about these functions will be showed:

Listing 1: theme.py in python

```
1 from flask import Flask, render_template, request, url_for, ←
2     redirect
3 app = Flask(__name__)
4 @app.route('/')
5 def root():
6     return render_template('home.html')
7
8 @app.route('/movies/')
9 def movies():
10    return render_template('movies.html')
11
12 @app.route('/characters/')
13 def characters():
14    return render_template('characters.html')
15
16 @app.route('/characters/Spiderman/')
17 def characters1():
18    return render_template('Spiderman.html')
19
20 @app.route('/signin/',methods=["GET","POST"])
21 def signin():
22    error=None
23    if request.method == "POST":
24        attempted_emailaddress = request.form['emailaddress']
25        attempted_password = request.form['password']
26
27        if attempted_emailaddress == "111@111" and ←
28            attempted_password == "password":
29            return redirect(url_for('root'))
else:
```

```

30     error = "Invalid credentials. Try Again."
31
32     return render_template('signin.html',error=error)
33
34 @app.route('/signin/signup/')
35 def signin1():
36     return render_template('signup.html')
37
38 @app.errorhandler(404)
39 def page_not_found( error ):
40     return("Sorry, Couldn't find your page, this web page is ←
41             designing...:D")
42 if __name__ == "__main__":
43     app.run(host='0.0.0.0', debug=True)
44
45
46 }
```

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workbook or other books and watch some videos to improve my knowledges. About my performed, I think I need more practice to improve my skills.

### 3 Enhancements

The web app has only a basic design and few functions at the moment. Compare to the original design, there are some features would be improved.

About contents and style. Firstly, the web app would add more detail information about the Marvel Cinematic Universe to make the collection be more complete. And users could get more information. There would be more web pages, such as 'latest news' page, personal homepage and some subpages. At the same time, it needs to add style that to make pages look nice.

About functions, the web app need to achieve the search function which in the navigation bar and the function of the sign-up pages. Moreover, the web app would add the database and keep data safe.

### 4 Critical Evaluation

About the features which I feel work well are the functions of login page and the error page, in addition, I feel more easily when I used the bootstrap to design the web pages. In contrast, there are some features I feel work poorly. First, it's the content of the web app. I feel it needs to add more data. And the function of sign-up page did not achieve because I need more practice to achieve different functions and I do not have enough time to finish it. I would achieve it in the future.

### 5 Personal Evaluation:

According to this coursework, I have learned how to use the bootstrap, templates and static files to design the web app easily and add the function such as request, responses, redirects and errors to the web app. I feel I understand how to use python more clearly than before. And I also understand the URL hierarchy more clearly. In addition, I faced some challenges when I design the web app, such as the function of login page did not work and the layout of pages did not become what I wished. I handled these challenges according to ask my classmates, read and try to understand the

# A Appendices

**Marvel Cinematic Universe**

This universe is an American media franchise and shared universe that is centered on a series of superhero films, independently produced by Marvel Studios and based on characters that appear in American comic books published by Marvel Comics.

The shared universe, much like the original Marvel Universe in comic books, was established by crossing over common plot elements, settings, cast, and characters.

Figure 1: **homepage -m**

**Movies:**

The Marvel Cinematic Universe is divided into four stages. The first film released in the MCU was Iron Man (2008), which began the first phase of films. The films are currently in Phase Three, which began with the release of Captain America: Civil War (2016).

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Figure 2: **homepage1 -m**

**Characters:**

There are some famous heros like Iron Man, Spiderman, Captain America, Hulk, Thor, Black Widow, Vision...And also some Bad Guys like Loki, Thanos, Ronan...

[View More Details](#)

Figure 3: **homepage2 -m**

**MCU Home Movies Characters**

**SPIDER-MAN**  
Homecoming  
7.7.2017

Figure 4: **moviespage -m**

**MCU Home Movies Characters**

**INFINITY WAR**  
PART I PART II  
MAY 2018 MAY 2019

**Guardians of the Galaxy**  
Self-righteous adventurer "Star-Lord" Peter Quill (Chris Pratt) becomes the number one target of the bounty hunter Kraglin after stealing a mysterious sphere, the villain Ronan seeks to use it to dominate the galaxy. In order to escape the endless kill, Quill forms a league with four inmates - the modified raccoon Rocket, the tree-like humanoid Groot, Gamora, and Drax...

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**Spider-man:Homecoming**  
Release date: July 7, 2017  
Plot: Peter Parker balances his life as an ordinary high school students in Queens with his superhero alter-ego Spider-man, and finds himself on trial of a new menace prowling the skies of New York City

[View details >](#)

**Avengers: Infinity War**  
Release date: May 4, 2018  
Coming soon ...  
[View details >](#)

Figure 5: **moviespage1 -m**

**MCU Home Movies Characters**

|   |   |
|---|---|
| <b>Spider-man</b><br>First appearance: Amazing Fantasy #15 (August 1962)<br>Alter ego: Peter Benjamin Parker<br>Movie: Captain America:Civil War; Spider-man... | <b>Iron man</b><br>First appearance: Tales of Suspense #39 (March 1963)<br>Alter ego: Anthony Edward "Tony" Stark<br>Movie: Iron Man(1,2,3) The Avengers...             |
| <a href="#">View details &gt;</a>   | <a href="#">View details &gt;</a>   |
| <b>Doctor Strange</b><br>First appearance: Strange Tales #110 (July 1963)<br>Alter ego: Stephen Vincent Strange<br>Movie: Doctor Strange...                     | <b>Captain America</b><br>First appearance: Captain America Comics #1 (March 1941)<br>Alter ego: Steven "Steve" Rogers<br>Movie: Captain America(1,2,3) The Avengers... |
| <a href="#">View details &gt;</a>   | <a href="#">View details &gt;</a>   |
| <b>Black Window</b>   | <b>Hulk</b>   |

Figure 6: **characters -m**

**Spider-Man**

Bitten by a radioactive spider, high school student Peter Parker gained the speed, strength and powers of a spider. Adopting the name Spider-Man, Peter hoped to start a career using his new abilities. Taught that with great power comes great responsibility, Spidey has vowed to use his powers to help people.

**Real Name:** Peter Benjamin Parker  
**Height:** 5'10"  
**Weight:** 167 lbs.  
**Abilities:** Peter is an accomplished scientist, inventor and photographer.  
**Group Affiliations:** Avenger, formerly the Secret Defenders, "New Fantastic Four", the Outlaws

**Powers:** Peter can cling to most surfaces, has superhuman strength (able to lift 10 tons optimally) and is roughly 15 times more agile than a regular human. The combination of his acrobatic leaps and web-slinging enables him to move rapidly from place to place. His spider-sense provides an early warning detection system linked with his human kinesthetics, enabling him the ability to evade most any injury, provided he doesn't cognitively override the autonomic reflexes. Note: his power enhancements through his transformation by the Queen and after battling Mordin - including his organic web glands and spinners - have been undone after Spider-Man's deal with Mephisto.

Figure 7: **characters1 -m**

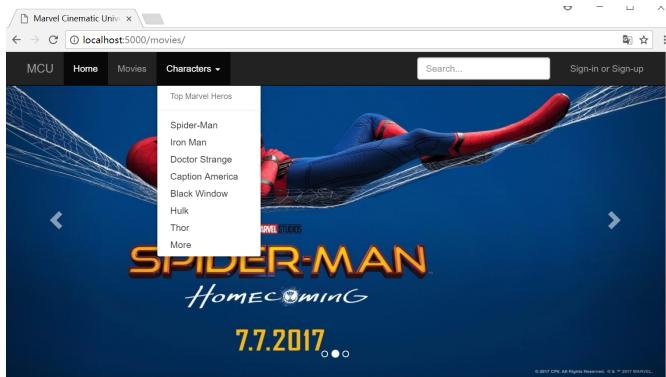


Figure 8: **characters2 -m**

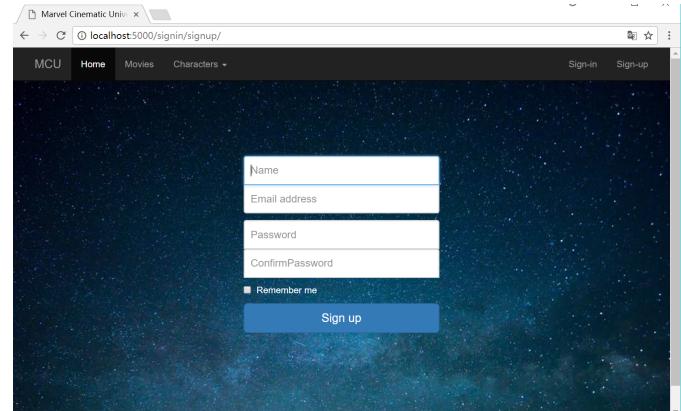


Figure 11: **signup -m**

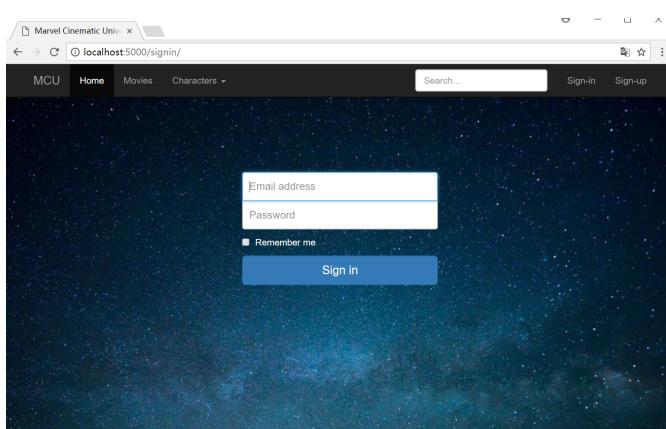


Figure 9: **login -m**

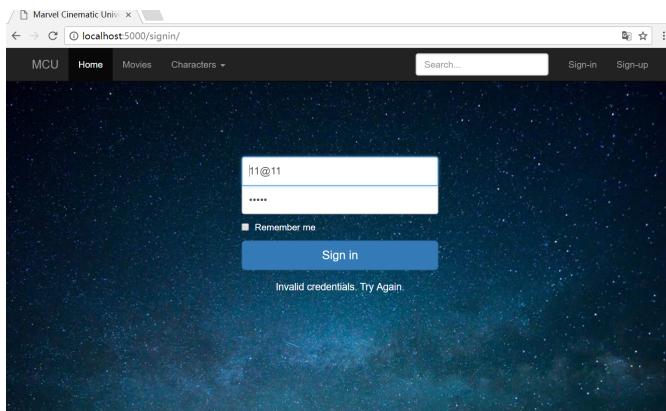


Figure 10: **login1 -m**

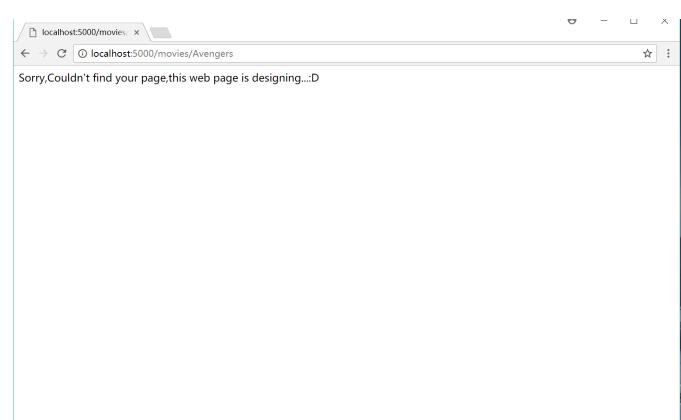


Figure 12: **errorpage -m**