

User Accounts

No screens



Prof. Lydia Chilton
COMS 6998
5 October 2018

Say your name



User Interface Design

COMS 4170 · Spring 2018

[Home](#) [Syllabus](#) [Assignments](#) ▾

Part 1 Build websites that suit the needs and abilities of users.

Part 2 When the needs and abilities of users are uncertain, design systems

You already know front-end web dev:
HTML, JavaScript, Bootstrap, jQuery

And design:
Iterative design, critique

Advanced Web Design Studio

COMS 6998 · Fall 2018

[Home](#) [Syllabus](#)

Goals

1. Master front-end and back-end technologies for making interactive websites.
2. Discover specific user needs by developing a low-level, mechanical model of human behavior.
3. Practice iterative design to meet specific user needs.

INSTRUCTOR

Prof. Lydia Chilton
OH: Tuesdays 4-5, CEPSR 612

Please contact staff through [Piazza](#) only

TAS

Katy Gero
OH: TBA, CS-DH room

Savvas Petridis
OH: TBA, CS-DH room

You will learn back-end web dev:

- Server-side programming (Flask),
- **Databases (Sqlite, SQLAlchemy)**
- Real-time Communication (Socket.IO)

And practice web design by:

- **Rebuilding IMDB.com**
- Rebuilding twitter
- Pursuing your own project

Last week:

**Build a web app that meets a
specific user need in the
movie data domain**

(That is not a specific need that IMDB supports well)

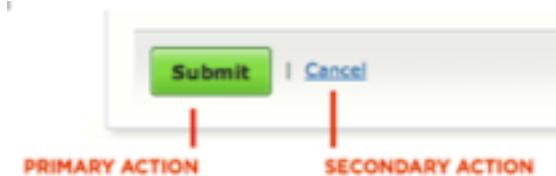
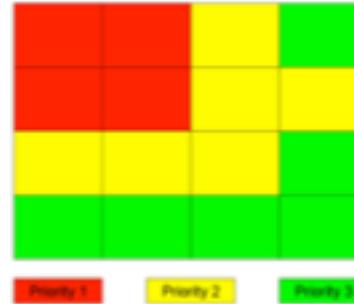
Last weeks goal: Iterate

- Iterate on your application
 - Define your own high level goal: a specific user need to solve
 - Define 7-10 low level goals you will need to achieve this.
 - This should be the **next riskiest thing**
 - It should now be feature complete and ready for users!
 - **Give a user persona so you know that it is ready for at least one user.**
 - The **graphic design** should reflect the intent of the application to the user.
 - It can be minimal, but it should convey the purpose of the side and guide the user's attention through the task
 - Create at least 1 paper prototype – test it on at least 1 person.
 - Report one thing you learned from it
 - Test it on at least 1 person
 - Report on thing you learned

Use graphic design to convey the specific needs your site serves.

- Conceptual grouping
- Location
- Whitespace
- Size
- Images
- Contrast
- Color

You are cordially invited to Robert and Alexandra's delectable after dinner party.
Wine and nibbles will be served.
When: February 20th, 2018 at 9:30pm.
Where: the pad. If you need directions, ping us.
Kindly let us know if you will be attending by February 2nd.



You are cordially invited to
Robert and Alexandra's
delectable after dinner party.
Wine and nibbles will be served.

Book unique homes and experiences.

WHERE

CHECK IN

CHECK OUT

GUESTS



Logo here

Course Listings by Subject	A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
Course Listings by Department	A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
Keyword Search Search Help More Options	Keywords: <input type="text"/> Instructor: <input type="text"/> Semester: <input type="text"/> All  Weekday: <input type="text"/> All  Class start time: <input type="text"/> All  <input type="button" value="Search"/>
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Home Pages	Instructors with home pages

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NOTE: Course information changes frequently. Please re-visit these pages periodically for the most recent and up-to-date information.

Studio Time: 45 minutes

Critique:

- **What specific user need is being met?**
- **Does the graphic design help the user meet their specific need in an intuitive way?**

How to give
Negative Critique

Honest

Too nice

Too mean



To genuinely help people we can't be too nice.
We have to say the things that aren't working.

I asked some of you:

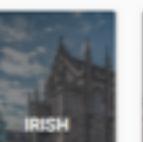
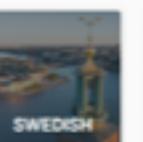
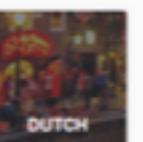
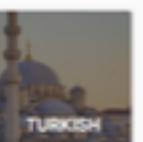
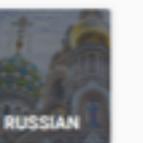
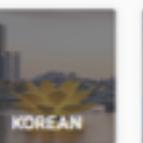
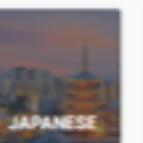
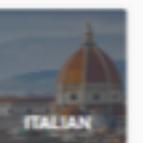
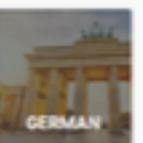
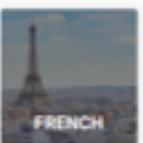
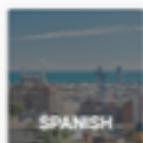
“Is there any reason you’re not as providing incisive negative critique?”

I don’t want to risk being too mean to somebody’s face.

Interface #1

- Specific User need:
 - Help advanced language learners immerse themselves in the language and culture of that language by finding films in their target language.

Immerse yourself. Watch a movie in **Danish**.

[Get started](#)

Improve your language skills and expand your cultural frontiers

Studies show that watching movies is one of the best ways to get better at language and achieve native-level proficiency. Relax and soak up new worlds of cinema you didn't know existed, whether you're hanging out with friends or just chilling in bed.



How it works

We make it convenient for you to discover great movies in the language you're learning. By aggregating movies using information from [IMDb](#) and other sources, we provide you with movies you'll be interested in that enrich your linguistic knowledge.



ish



Find your language

Danish

English

Spanish

Finnish

Irish

Kurdish

Cornish

Luxembourgish

Polish

Swedish

Turkish

Yiddish

Movies in Japanese

Classics

**Spirited Away**

2003 - 8.6/10

**Princess Mononoke**

1997 - 8.4/10

**Seven Samurai**

1956 - 8.7/10

**Howl's Moving Castle**

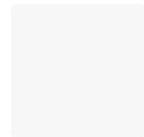
2005 - 8.2/10

**My Neighbor Totoro**

1988 - 8.2/10



New releases

**Junpei, Think Again**

2018

**Before The Coffee Gets Cold**

2018

**Hibiki - shōsetsuka ni naru hōhō**

2018

**Real Girl**

2018

**Okko's Inn**

2018



Movies in Japanese



My Neighbor Totoro
1988 - 8.2/10



Okko's Inn
2018

2012

2016

Rating

● ● ● ● and up

< Clear

Countries

France
Canada
Belgium
Switzerland
Italy

More...

< Clear

Genre

Drama
Documentary
Comedy
Crime
Adult
Adventure
Action
Thriller
Biography
Animation

< Clear

Sort by rating

[W.A.K.A](#) 2014 - 8.9/10 ►

Directed by Françoise Ellong - Drama - Patricia Bakalack, Bruno Henry, Alain Bomo Bomo, Frank Ateh

Mathilda is Marilyn, mother of Adam during the day and prostitute at night. She is ready for any sacrifice to raise her child...

[Le monde doit m'arriver?](#) 2013 - 8.7/10 ►

Directed by Jonathan Taleb - Comedy, Drama, Family - Alex Skarbek, Jeremy Taleb, Sabrina Nouchi, Georges Martin-Cansier

Between fear of success and a tricky break-up, Ludovic is beyond all hope as he is getting close to the 30's stage. His unexpected meeting with a sick child, Raphael, shakes up his daily life and his future approach. Together, they go after their dreams...

[Leviathan](#) 2012 - 8.5/10 ►

Directed by Pierre-Benoist Verschuer - Drama - Eric Berger, Morgane Bussière, Philippe Canales, Guillaume Falomé

[Patries: Homelands](#) 2015 - 8.2/10 ►

Directed by Cheyenne Carras - Drama - Jackée Toto, Augustin Ragueneau, Balla Gagny Diop, Sylvia Homawoo

A strong tale of racial integration, two different stories of young men who both are looking for a land to put their roots down.

[Out 1](#) 2015 - 8.1/10 ►

Directed by Jacques Rivette, Suzanne Schiffman (co-director) - Drama - Michèle Moretti, Hermine Karagheuz, Karen Puig, Pierre Bellot

"Out 1" is a very precise picture of post May 1968 malaise - when Utopian dreams of a new society had crashed and burned, radical terrorism was starting to emerge in unlikely places and a ...

[Une braise sur la neige](#) 2014 - 7.9/10 ►

Directed by Boris Baum - Drama - Xavier Galais, Chiara Capitani, Johan Libéreau, Jonathan Bruzat

A robbery, a new language, an inner odyssey

[Games of Clouds & Rain](#) 2013 - 7.9/10 ►

Directed by Benjamin de Lajarte - Comedy, Drama, Romance - Simon Yam, Heling Li, Audrey Dana, John Mc Lean

Lost souls on a rainy night find love. Or not. An unpredictable story between madness and poetry, among Taiwanese, French and New Yorker.

[Amour](#) 2012 - 7.9/10 ►

Directed by Michael Haneke - Drama, Romance - Jean-Louis Trintignant, Emmanuelle Riva, Isabelle Huppert, Alexandre Tharaud

Georges and Anne are an octogenarian couple. They are cultivated, refined music teachers. Their daughter, also a musician, lives in Britain with her family. One day, Anne has a stroke, and the couple's bond of love is severely tested.

[What the Day Owes the Night](#) 2012 - 7.8/10 ►

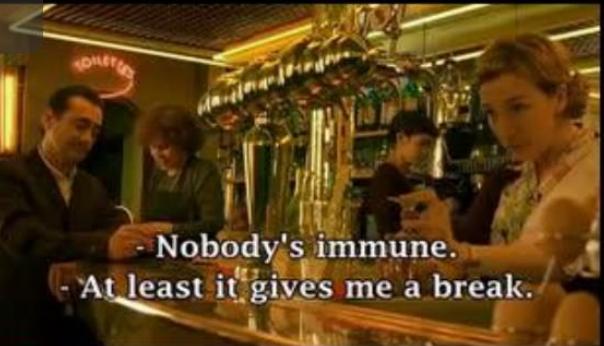
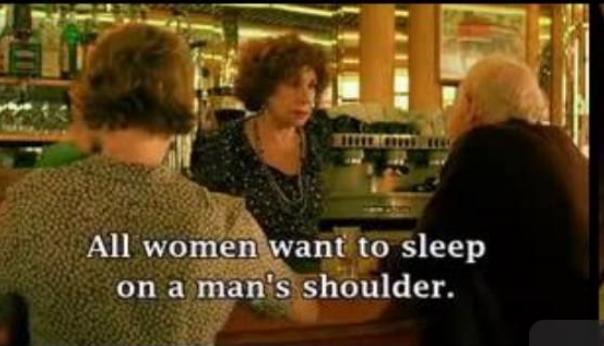
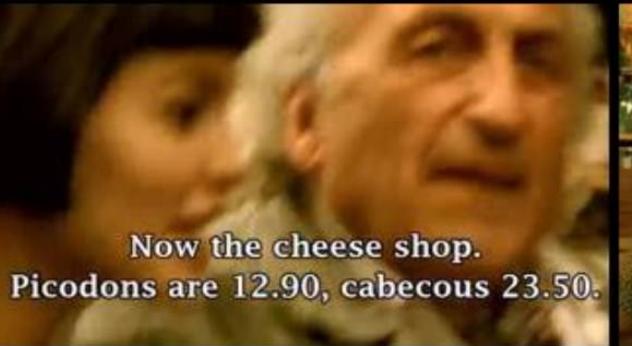
Directed by Alexandre Arcady - Drama, Romance - Nora Amezzedde, Firdaus Kit柴 Attou, Anne Parillaud, Vincent Perez

Algeria, the 1930s. Younes is nine years old when he is put in his uncle's care in Oran. Rebatized Jonas, he grows up among the Rio Salado youths, with whom he becomes friends. Emile is ...

[The Little Prince](#) 2015 - 7.8/10 ►

Directed by Mark Osborne - Animation, Adventure, Drama - Jeff Bridges, Mackenzie Foy, Rachel McAdams, Marion Cotillard

A little girl lives in a very grown-up world with her mother, who tries to prepare her for it. Her neighbor, the Aviator, introduces the girl to an extraordinary world where anything is possible, the world of the Little Prince.



Critique: I like, For me.../ I wish...

The screenshot shows a movie streaming platform's homepage with a dark blue background featuring a city skyline at dusk. At the top left is a logo with 'WATCH' and 'LEARN' next to eye and brain icons. On the right is a user profile icon, a search bar with the placeholder 'Find your language...', and a magnifying glass icon.

Movies in Japanese

Classics

- Spirited Away
2003 - 8.6/10
- Princess Mononoke
1997 - 8.4/10
- Seven Samurai
1956 - 8.7/10
- Howl's Moving Castle
2005 - 8.2/10
- My Neighbor Totoro
1988 - 8.2/10

New releases

- Junpei, Think Again
2018
- Before The Coffee Gets Cold
2018
- Hibiki - shōsetsuka ni naru hōhō
2018
- Real Girl
2018
- Okko's Inn
2018

Iteration: Made the Movies more like Netflix

The screenshot shows a movie streaming platform's homepage with a dark blue background featuring a city skyline at dusk. At the top left are 'WATCH' and 'LEARN' buttons with eye and brain icons. A search bar at the top right contains the placeholder 'Find your language...'. Below the header, the title 'Movies in Japanese' is displayed in large white text.

Classics

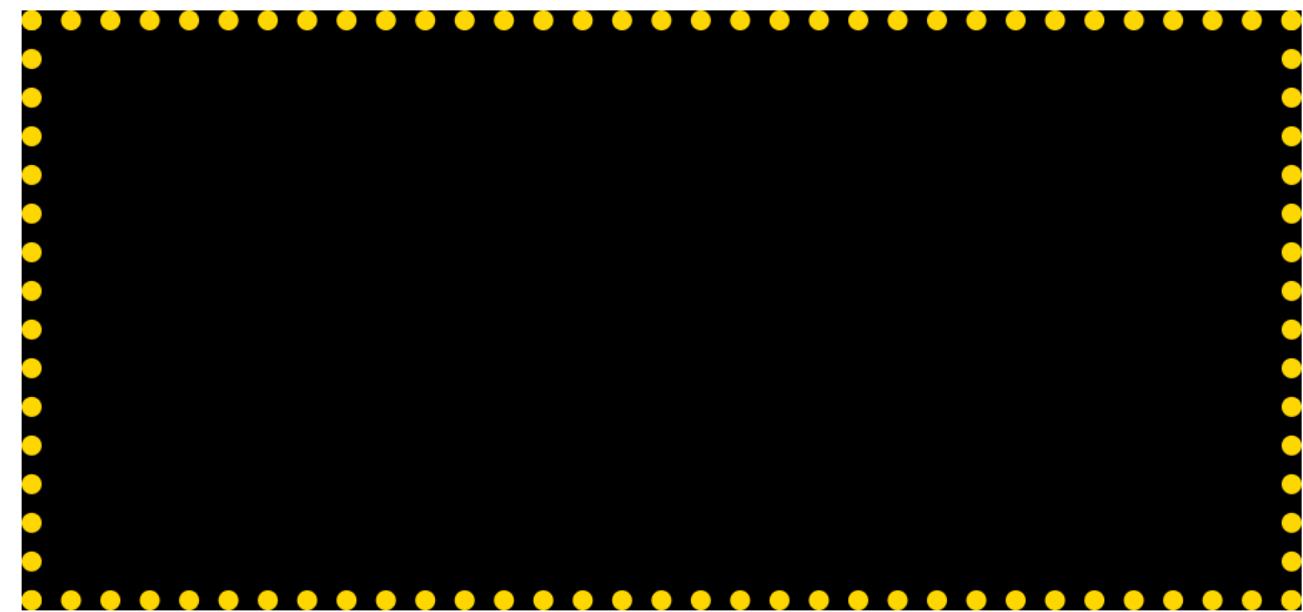
- Spirited Away**
8.6/10 - 2001
Directed by Hayao Miyazaki, Kirk Wise - Animation, Adventure, Family - Rumi Hiragi, Miyu Irino, Mari Natsuji, Takashi Naitō
During her family's move to the suburbs, a sullen 10-year-old girl wanders into a world ruled by gods, witches, and spirits, and where humans are changed into beasts.
- Princess Mononoke**
8.4/10 - 1997
Directed by Hayao Miyazaki - Animation, Adventure, Fantasy - Billy Crudup, Billy Bob Thornton, Minnie Driver, John DiMaggio
On a journey to find the cure for a Tatarigami's curse, Ashitaka finds himself in the middle of a war between the forest gods and Tatara, a mining colony. In this quest he also meets San, the Mononoke Hime.
- Seven Samurai**
8.7/10 - 1954
Directed by Akira Kurosawa - Adventure, Drama - Toshirō Mifune, Takashi Shimura, Keiko Tsushima, Yukiko Shimazaki
A poor village under attack by bandits recruits seven unemployed samurai to help them defend themselves.
- Howl's Moving Castle**
8.2/10 - 2004
Directed by Hayao Miyazaki - Animation, Adventure, Family - Chioko Baishō, Takuya Kimura, Akihiro Miwa, Tatsuya Gashūn
When an unconfident young woman is cursed with an old body by a spiteful witch, her only chance of breaking the spell lies with a self-indulgent yet insecure young wizard and his companions in his legged, walking castle.
- My Neighbor Totoro**
8.2/10 - 1988
Directed by Hayao Miyazaki - Animation, Family, Fantasy - Noriko Hidaka, Chika Sakamoto, Shigesato Itoi, Sumi Shimamoto
When two girls move to the country to be near their ailing mother, they have adventures with the wondrous forest spirits who live nearby.
- Grave of the Fireflies**
8.5/10 - 1988
Directed by Isao Takahata - War - Tsutomu Tatsumi, Yoshiko Shinohara, Akihiko Hirata
A young boy and his sister must survive in Japan during World War II.

New releases

- Thumbnail for a new release, likely 'The Promised Neverland'.
- Thumbnail for a new release, likely 'Kaguya-sama: Love is War'.
- Thumbnail for a new release, likely 'Your Name'.
- Thumbnail for a new release, likely 'The Wind Rises'.
- Thumbnail for a new release, likely 'The Tale of the Princess Kaguya'.

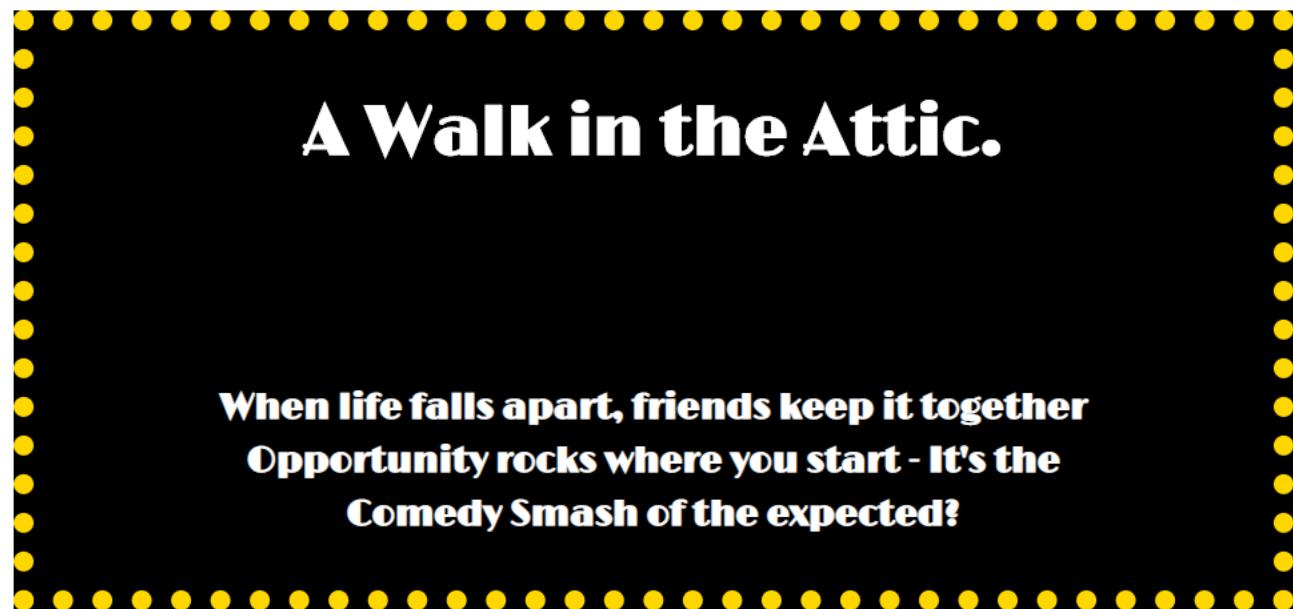
Interface #2

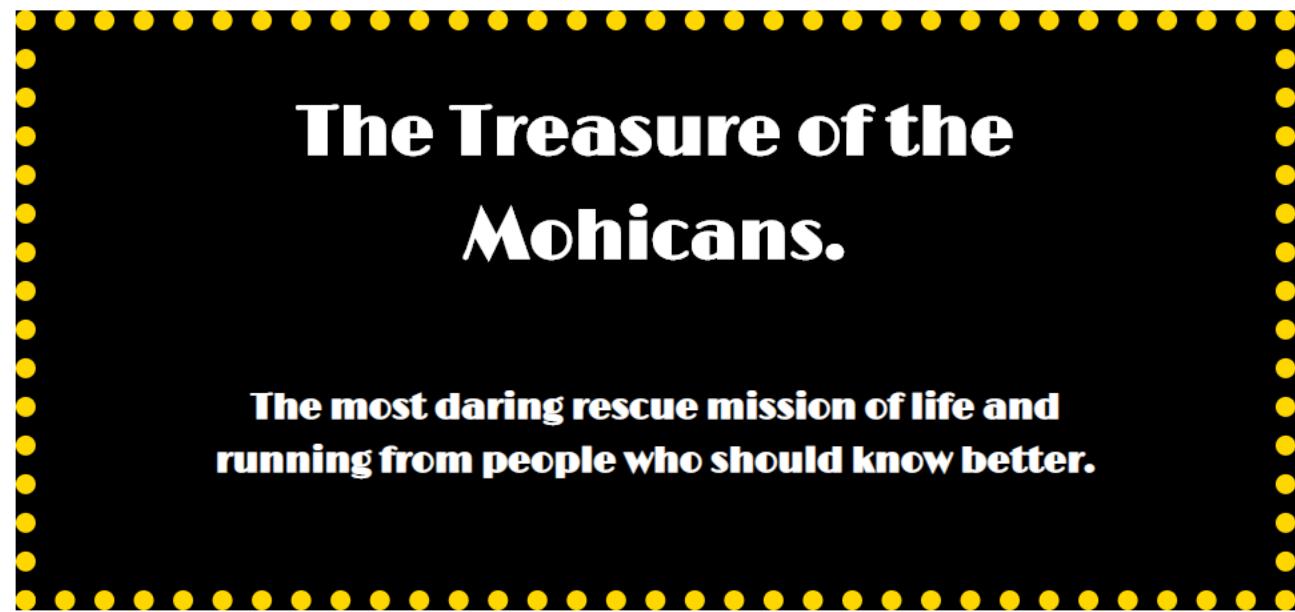
- Specific User need:
 - “I wanted to practice using a python backend to call a Markov Chain, so I used to it generate movie titles. So it can help script writer come up with ideas, but sometimes it’s just funny.”











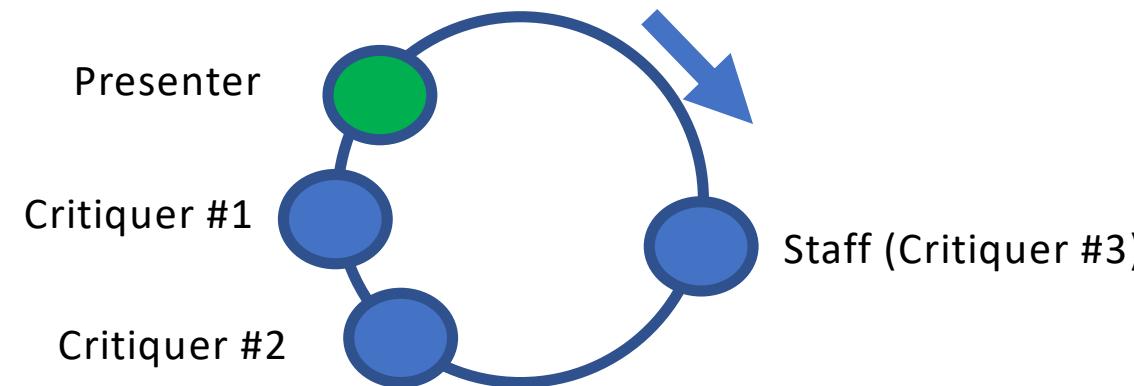
Critique: I like..., For me... I wish...



Studio Time: 45 minutes

Critique:

- Present your specific needs
- Present your interface by walking us through a user's path through the system to meet their goal.
- Everyone presents, everyone critiques.
 - **What specific user need is being met?**
 - **Does the graphic design help the user meet their specific need in an intuitive way?**



Today by 9pm – How will you iterate on your graphic design
AND

what is (at least) one feature will you add that requires user accounts

User Accounts

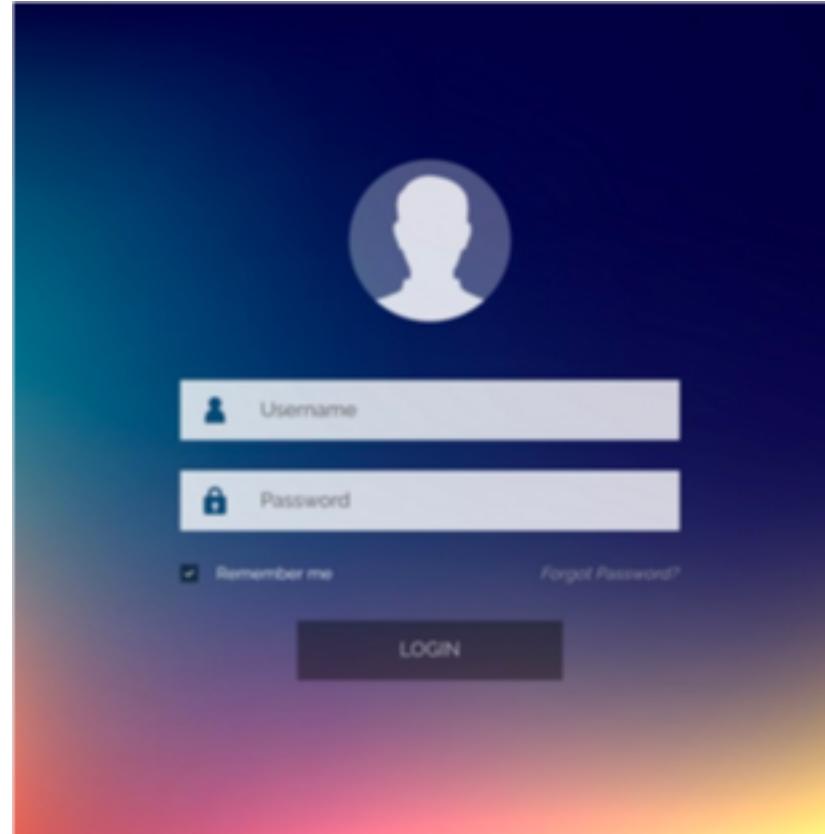


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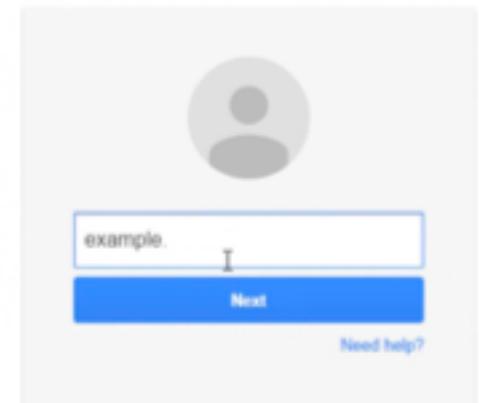
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or

[Forgot account?](#) [Not now](#)

One account. All of Google.

Sign in to continue to Gmail



Create account

Basic elements of Login

Front end:

User actions needed

Register
New Users

Bad: User already exists

Good: created. Now what?

Login

Correct

Incorrect

Logout

Where to send the user next

Using app

Know they are signed in

Back end:

Stuff needed to support user actions

Database of users

Password hashing

What to implement:

Front end: User interface

Register
New Users

A form
feedback

Login

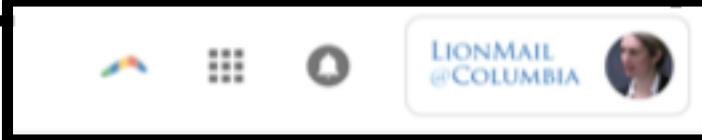
A form
feedback

Logout

A button

Using app

Reminder you are logged in



Back end: Database interaction

Validation

Validation

nothing

nothing

What to implement:

Front end: User interface

Back end: Database interaction

Register
New Users

A form
feedback

Validation

Login

A form
feedback

Validation

Logout

A button

nothing

Using app

Reminder you are logged in

nothing

WTForms

Flask_login



Flask_login:

log users in, log users out, know who they are

Add flask_login:

```
from flask_login import LoginManager
```

```
login = LoginManager(app)
```

```
@login.user_loader  
def load_user(id):  
    return User.query.get(int(id))
```

Use flask_login:

```
user = Users.query.get(id)
```

```
-  
    login_user(user)
```

```
<div>  
| Hi, {{ current_user.username }}!  
</div>
```

WTForms

Define forms and their validation

Back-end:

Define Form class

```
from flask_wtf import FlaskForm
from wtforms import StringField, PasswordField, BooleanField,
from wtforms.validators import ValidationError, DataRequired,
from app.models import User
```

```
class LoginForm(FlaskForm):
    username = StringField('Username', validators=[DataRequired()])
    password = PasswordField('Password', validators=[DataRequired()])
    remember_me = BooleanField('Remember Me')
    submit = SubmitField('Sign In')
```

Front end:
render form

```
<h1>Sign In</h1>
<form action="" method="post" novalidate>
    {{ form.hidden_tag() }}
    <p>
        {{ form.username.label }}<br>
        {{ form.username(size=32) }}
    </p>
    <p>
        {{ form.password.label }}<br>
        {{ form.password(size=32) }}
    </p>
    <p>{{ form.remember_me() }} </p>
    <p>{{ form.submit() }}</p>
</form>
```

This week's goal: Implement User Accounts

- Extend your application by adding one feature that requires user accounts.
 - Define your own high level goal
 - Define 7-10 low level goals you will need to achieve this.
 - You must implement **user accounts**
 - Add a feature to your site that requires user account.
 - The **graphic design** should reflect the intent of the application to the user.
 - Please iterate on the graphic design based on your feedback today.

Today by 9pm – How will you iterate on your graphic design
AND

what is (at least) one feature will you add that requires user accounts