Developer Take Home Challenge

From a high level, architect a ruby/rails app that:

- Displays a list of videos from the Zype API.
    - Each video should show:
        - Video thumbnail
        - Video title
- Allows a user to click on the video thumbnail/title to view video details.
- On video details screen render the video player, unless the video is a subscription video.
- If the video is a subscription video it will display a subscription paywall.
- The subscription paywall will have two buttons:
    - Login
    - Subscribe
- Clicking login will allow the user to login using username and password via our API. An example of this request is detailed below.
- Once the user has successfully logged in, they will be able to view the video.
- Login state can persist in whatever manner you prefer.
- You do not need to implement the Subscribe screen.

This assignment will be done in two parts:

1. **High level architecture overview.**
    - Explain how the site will function from a broad level. Describe the architecture of the app and how it will communicate with the Zype api. Give an overview of the models and controllers. Describe where various portions of the functionality and logic will be. You can use diagrams if you would like.
    - Keep in mind that this application will eventually do more than simply allow a user to login, so design the app the be flexible and modular.

2. **Code the basic application.**
    - Send us a link to a GitHub repository with your source code.
    - Bonus points if we can run the app via a publicly accessible url.

Zype Api Details
Documentation for the Zype API is available here: https://docs.zype.com/v1.0/reference

Videos
To get a list of videos from the api use the following url. Note the use of the **app_key**.

GET
```
https://api.zype.com/videos?app_key={app_key}
```

App Key
```
XWny5j0V89yb1uZu6SI_D95EADV5FzBYldE9Ny0_q0GOzcWLiruPyhN-f2Pcyohf
```

The api will return an array of video objects. To detect if a subscription is required for the video, it will have a flag **subscription_required**. Only videos with `subscription_required=true` require a subscription.

For more information: https://docs.zype.com/v1.0/reference#videos

Consumer and Authorization A consumer represents a "user" of Zype (that is, someone who has subscribed to a client property).

Login is handled via oauth.

To verify a user's credentials send a POST request to the following url.

POST
https://login.zype.com/oauth/token/?client_id={client_id}&client_secret={client_secret}&username={username}&password={password}&grant_type= password

Use these keys for client id and client secret:

Client ID
```
61255480307354ebd4d094482f2483adec9942637979aa5c3963ecbac469f943
```

Client Secret
```
926e632b2aa9758f60dbdf2f8de13bebd9a04dfd602de4c257b3f8b4a97cf0b8
```

The username and password should come from the login form that the user submits.

You can use the following credentials to simulate a working account:

```
username=test@test.com
password=password
```

For example, a full working request would look like

POST

```
https://login.zype.com/oauth/token/?client_id=61255480307354ebd4d094482f
2483adec9942637979aa5c3963ecbac469f943&client_secret=926e632b2aa9758f6
0dbdf2f8de13bebd9a04dfd602de4c257b3f8b4a97cf0b8&username=test@test.com
&password=password&grant_type=password
```

with a response of:

```
200 {

  "access_token":
"cbdd6ba9a6b812b1061bb5dea0f44cb7b705d40981ab0aa19cb935c96d989268",

"token_type": "bearer", "expires_in": 604800, "refresh_token":
"688d38d1e1b2ea0192bd837dbb2eaf722c8a08d8739e804cf37ddf335d7ef214",

"scope": "consumer", "created_at": 1454440773 }
```

If an access_token is not returned and/or you get a 4xx response the username/password are invalid and the user should not be granted access to the video.

For more information see:
https://docs.zype.com/reference#oauth-1

Rendering a Video
To render a subscription video use the following html:

```
<div id="zype_{video_id}"></div><script
src="https://player.zype.com/embed/{video_id}.js?autoplay=true&access_toke
n={access_token}" type="text/javascript"></script>
```

Video ID
The video id is returned from the videos api as detailed above.

Access Token
The access token is returned from a successfully logged in user.

To render a free video (subscription_required=false) use the following html: `<div id="zype_{video_id}"></div><script src="https://player.zype.com/embed/{video_id}.js?autoplay=true&app_key={app_key}" type="text/javascript"></script>`

Video ID The video id is returned from the videos api as detailed above.

App Key

`XWny5j0V89yb1uZu6SI_D95EADV5FzBYldE9Ny0_q0GOzcWLiruPyhN-f2Pcyohf`

Feel free to reach out with any questions.

Happy Coding!