Flask Beta

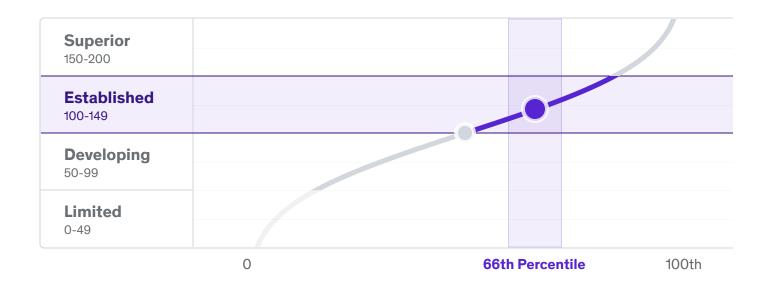
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### **Flask**

? 30 questions

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#### × Question 1 Incorrect

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Which function is called whenever a valid JWT is used to access a protected route?

#### **Answer 1 Correct**

token\_in\_blocklist\_loader()

**Answer explanation:** The token\_in\_blocklist\_loader() function is a decorator. It helps to protect routes by setting the callback function used to verify if a JWT has been revoked or not.

#### You selected Answer 4 Incorrect

token\_verification\_loader(callback)

**Answer explanation:** The token\_verification\_loader() sets the callback function that customizes the verification process of a valid JWT. It does not directly protect the routes.

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#### ✓ Question 2 Correct

.

Which relationship is defined in the code? addresses = db.relationship('Address', backref='person', lazy=True)?

#### You selected Answer 2 Correct

one-to-many

**Answer explanation:** One-to-many is set by defair option

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#### × Question 3 Incorrect

When creating an application, what elements might you define when creating a base/skeleton template meant for all other templates to inherit from? Select all that apply.

#### You selected Answer 1 Correct

**Navigation Bar** 

**Answer explanation:** Navigation bars and menus typically remain the same regardless of what page is rendered. This would be a good feature to define in a base template so it can be used throughout on all child templates.

#### You selected Answer 2 Correct

Footer

**Answer explanation:** The footer of a webpage is often overlooked. It might contain copyright information or company contact information in a small unassuming font. This information remains the same through the entire website. It is helpful to have it in a base template so it doesn't have to be added to each template individually.

#### You selected Answer 3 Incorrect

Page Title

**Answer explanation:** The title of a page is usually unique. If you're on a page with a news article, it likely won't have the same title as the homepage. For this reason, the title should be defined and set in the child template rather than the base template.

#### Question 4 Correct

What best explains the relationship between REST

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**Answer explanation:** The REST design pattern is widely used across the industry to create stateless web services often known as RESTful APIs or services. RESTful APIs implement a REST architecture through the service.

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#### × Question 5 Incorrect

What choice would you have made with the debug option to initialize the Flask application for a production environment?

#### **Answer 2** Correct

**FALSE** 

**Answer explanation:** The option should be turned off (FALSE) for the production mode. This will help avoiding outputting errors to the users.

#### You selected Answer 4 Incorrect

**TRUE** 

**Answer explanation:** The option True will turn on the debug mode. This will output the errors to the user interface, which you want to avoid in the production.

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#### ✓ Question 6 Correct

What Flask functions are available by default within

#### You selected Answer 1 Correct

get\_flashed\_messages()

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**Answer explanation:** The get\_flashed\_messages() function is automatically available within

#### You selected Answer 3 Correct

url\_for()

**Answer explanation:** The url\_for() function creates a URL with given variables that provide dynamic parts passed in as arguments. This function is automatically available within the Jinja2 template.

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#### × Question 7 Incorrect

Using Flask-WTF, how would you create a simple form that asks for a user to input their name?

#### **Answer 1** Correct

```
class NameForm(FlaskForm):
    name = StringField('What is your name?',
        validators = [DataRequired()])
    submit = SubmitField('Submit')
```

**Answer explanation:** The WTForms package provides a base Form class. The Flask-WTF package provides a FlaskForm class that extends the base Form class. Any form created with Flask-WTF should extend the FlaskForm class.

#### You selected Answer 4 Incorrect

```
class NameForm(FlaskForm):
   name = StringField('What is you
   validators = [DataRequired()]
```

**Answer explanation:** A form should have a submisend a request to the server and kick off a numbe

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#### Question 8 Correct

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What function is used to express a link between models with Flask-SQLAlchemy version 1.4 and above?

#### You selected Answer 3 Correct

relationship()

**Answer explanation:** The relationship() function maps together two classes that represent database models. This mapping creates a relationship among the models.

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#### ✓ Question 9 Correct

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What does schema.load() do?

#### You selected Answer 2 Correct

Validation and deserialization of the data

**Answer explanation:** schema.load() validates and deserializes the data. It specifies the deserialization keys using data\_key.

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#### Question 10 Correct

How are dynamic routes built in Flask?

#### You selected Answer 3 Correct

Provide a variable in the URL path, wrapped with is passed into the routes function as an argument

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**Answer explanation:** Square brackets < > are used to signify a variable in the URL that is passed into the route() decorator function. It's then passed to the view function associated with that particular route.

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#### × Question 11 Incorrect

What options are available for hosting a Flask application? Select all that apply.

#### You selected Answer 1 Correct

Waitress

**Answer explanation:** Waitress is a production-quality WSGI server that can host Python applications. Python applications cannot run directly on web servers like nginx. They must run on a WSGI server that provides an interface between the web server and the application.

#### You selected Answer 3 Correct

Google Cloud Run

**Answer explanation:** Google Cloud Run is a serverless platform that can host a Flask application. An application can be containerized and runs on the platform.

#### You selected Answer 4 Incorrect

Flask's built-in server

**Answer explanation:** The server built into Flask s It's not recommended to use the built-in server fo scalability.

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#### Question 12 Correct

What is the main purpose of adding the NGINX as a dedicated server?

#### You selected Answer 4 Correct

It manages web traffic, proxies requests to the WSGI server, and serves static content itself.

**Answer explanation:** NGINX is a type of HTTP web server that can be paired with a WSGI server, such as uWSGI or Gunicorn. It manages web traffic and proxies.

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#### × Question 13 Incorrect

What is the default behavior when the "Submit" button is clicked on a web form? Select all that apply.

#### **Answer 1** Correct

The webpage is refreshed.

**Answer explanation:** The webpage will by default refresh when the submit button is clicked and the form is successfully validated. There may be times where the desired behavior is to redirect the user to another page rather than refreshing the webpage.

#### **Answer 2** Correct

A GET request is sent.

**Answer explanation:** By default, forms use GET remethod because POST requests are more secure

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#### You selected Answer 3 Incorrect

A POST request is sent.

request is made when submitting a form. The method must be specified if POST is to be used.

#### **Answer 4** Correct

The data is validated.

**Answer explanation:** Data in the form is checked to ensure that it is valid. This occurs before a request is sent to the server.

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#### Question 14 Correct

What code must be added in order to apply Flask-Bootstrap to a template? Select all that apply.

#### You selected Answer 2 Correct

Edit the .py file that creates an instance of the Flask class. Include the following line of code: from flask\_bootstrap import Bootstrap

**Answer explanation:** Bootstrap must be imported from flask\_bootstrap. Note that the Flask-Bootstrap package must also be installed in the environment. Flask-Bootstrap is not the same thing as Bootstrap-Flask. They are separate Flask extensions that both provide Bootstrap capabilities, but they cannot be used together.

#### You selected Answer 3 Correct

Edit the template file. Include the following line of "bootstrap/base.html" %}

Answer explanation: A Bootstrap-based template Bootstrap. This provides basic uniform styling tha developers will create a base.html template within bootstrap/base.html. Then any templates within t base.html rather than the Bootstrap base.

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#### You selected Answer 4 Correct

Edit the .py file that creates an instance of the Flask class. Include the following code:

app = Flask(\_\_name\_\_)
Bootstrap(app)

**Answer explanation:** An instance of the Flask class should be passed into the Bootstrap constructor. After calling the Bootstrap constructor, new templates become available with the application.

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#### × Question 15 Incorrect

What Flask-WTF functions can be used to validate a form? Select all that apply.

#### You selected Answer 1 Incorrect

is\_submitted()

**Answer explanation:** is\_submitted() does not validate form data. It is used to check if a form has been submitted before validating the data.

#### You selected Answer 3 Correct

validate\_on\_submit()

Answer explanation: Flask-WTF provides a validate\_on\_submit() function to validate a form after it's submitted. This function is handy because the submitted of the form has been submitted before it ca

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You selected Answer 4 Correct

validate()

Answer explanation: WTForms provides a validate() function that validates the data in the

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#### Question 16 Correct

How could you create a Bootstrap Flask application?

#### You selected Answer 1 Correct

By using {% extends "bootstrap/base.html" %} in your jinja Bootstrap template

**Answer explanation:** You create a jinja Bootstrap template by pointing to base.html file. The correct code snippet is {% extends "bootstrap/base.html" %}.

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#### × Question 17 Incorrect

What parameters are used in the add\_resource() function of the Flask-RESTful extension? Select all that apply.

#### **Answer 1 Correct**

endpoint

**Answer explanation:** The endpoint name is the registration key for views, a symbolic name by which you can reference the route from other parts of your application. Flask itself assumes the name of the view function as an endpoint.

#### You selected Answer 3 Correct

resource

**Answer explanation:** The resource parameter is t an object within the application, and it has a unique

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**Answer explanation:** One or more URLs can be passed in for the resource to match to a view function. Any URL variables passed to the add\_resource function are then passed to the resource method.

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#### Question 18 Correct

Which of the following routes correctly flashes a message when the user logs in successfully? Assume the "user" object is an instance of the User class.

#### You selected Answer 3 Correct

```
@app.route('/login', methods=['GET', 'POST'])
def login():
    form = LoginForm()
    if form.validate_on_submit():
        login_user(user)
        flash('Successfully Logged In!')
    return redirect(flask.url_for('index'))
return render_template('login.html', form=form)
```

**Answer explanation:** The flash() function is called with a message in the form of a string that may be displayed on the next response sent to the client. The flash() function itself does not display the message.

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#### ✓ Question 19 Correct

Using the Flask-SQLAlchemy package, which of the

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#### You selected Answer 1 Correct

class User(db.Model):

```
last_name = db.Column(db.String(64))
username = db.Column(db.String(64))
```

**Answer explanation:** The User model is made up of 4 fields. The id field is a primary key, which is necessary for any model. Because SQL is relational, the models must have a key to identify them.

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#### Question 20 Correct

Using Flask-SQLAlchemy, which of the following classes creates a "Book" model?

#### You selected Answer 2 Correct

```
class Book(db.Model):
    id = db.Column(db.Integer, primary_key=True)
    title = db.Column(db.String(80), nullable=False)
    author = db.Column(db.String(80), nullable=False)
```

**Answer explanation:** The "Book" class inherits from db.Model to create a "Book" model. Each model within SQL databases must have a primary\_key. This is typically named "id".

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#### Question 21 Correct

Which of the following lines can enable HTTP Strict-Transport-Security to prevent man-in-the-middle attacks?

#### You selected Answer 3 Correct

response.headers['Strict-Transport-S

Answer explanation: A header of a response can

max-age set. This enforces the use of HTTPS requests.

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#### Question 22 Correct

Which of the following code snippets allows a custom CSS file from the "static" subdirectory to be applied to a template in conjunction with a styling from a Bootstrap template?

#### You selected Answer 3 Correct

```
{%extends "bootstrap/base.html" %}

{% block styles %}

{{super()}}
    link rel="stylesheet" href="{{url_for('.static', filename='mystyl {% endblock %}}
```

**Answer explanation:** The bootstrap base template can be applied in conjunction with a custom styling sheet by extending the template and linking the stylesheet. The super() function must be called before, in order to apply both the parent and the stylesheet.

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#### × Question 23 Incorrect

Assume there are 20 Person records in an SQL database. Which of the following queries will return only one record? Select all that apply.

#### You selected Answer 1 Incorrect

Person.query.get(4)

**Answer explanation:** The get() method will obtain know with certainty that a record with the primary record has been assigned that primary key then n

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#### You selected Answer 2 Correct

**Answer explanation:** The first() method ensures the query only obtains the first record that meets the criteria. When using the first() method, only one record will be in the results of the query.

#### You selected Answer 3 Correct

Person.query.limit(1).all()

**Answer explanation:** The limit() method limits the records that will be returned. Out of all of the records, only 1 will be in the query.

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#### × Question 24 Incorrect

What command will activate a virtual environment named "virtual-environment"? Assume you are on Linux.

#### You selected Answer 1 Incorrect

source virtual-environment

**Answer explanation:** "virtual-environment" is a directory, not a file. The source command must have a file as the argument, and the file will contain commands to activate the virtual environment.

#### **Answer 4** Correct

source virtual-environment/bin/activate

**Answer explanation:** On Unix systems, the source the location specified in the argument. When "virt bin/activate file is created with commands to acti

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#### Question 25 Correct

Which of the following Python frameworks has an admin panel built in?

#### You selected Answer 3 Correct

Django

**Answer explanation:** The basic Django framework has a built-in admin panel. The provided admin panel is a UI that devs can interact with and customize to easily handle administrative tasks.

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#### × Question 26 Incorrect

What package can be used to add password reset functionality to a Flask application?

#### **Answer 2** Correct

Flask-Security

**Answer explanation:** Flask-Security provides password reset functionality. The application can be configured to send an email to the user with a link to reset the password.

#### You selected Answer 3 Incorrect

Flask-Mail

**Answer explanation:** Resetting a password generouser via email. While Flask-Mail handles sending on password reset feature. The Flask-Security pacpassword reset functionality.

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#### Question 27 Correct

What MongoEngine function can be used to connect a Flask app to a running instance of mongodb?

#### You selected Answer 4 Correct

connect()

**Answer explanation:** The connect() function from the MongoEngine extension is used to connect to a running instance of Mongodb. The connect() function accepts the database name as a parameter and assumes the instance is running on the localhost. If it is running elsewhere, additional parameters are required to connect.

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#### × Question 28 Incorrect

What is the type of authentication is used in the Flask-Login package?

#### You selected Answer 1 Incorrect

Token-based authentication

**Answer explanation:** Token-based authentication uses tokens to authenticate the user. Flask-Login uses cookies rather than tokens.

#### **Answer 4** Correct

Cookie-based authentication

**Answer explanation:** Flask-Login uses cookie-ba put in a session from the database, a sessionID is cookie.

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#### Question 29 Correct

Which command will install the Flask-WTF package in your environment?

#### You selected Answer 2 Correct

pip install Flask-WTF

**Answer explanation:** pip is the package installer for Python. Its install command can be used to install various Python packages such as Flask-WTF.

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#### Question 30 Correct

If a user has clicked a "forgot password" button on the login page, what steps should be taken before they can reset the password? Select all that apply.

#### You selected Answer 1 Correct

Check that the email address has been confirmed.

**Answer explanation:** Along with having the user verify their email address, check if the email address has been confirmed. When a user first registers an account, an email with a "confirmation" link should be sent to them. They should click the link to "confirm" that the email address is valid and belongs to them.

#### You selected Answer 2 Correct

Ask them to verify their email address.

**Answer explanation:** Rather than automatically sassociated with the username, ask them to verify sent if the email address they provided matches t

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#### You selected Answer 3 Correct

**Answer explanation:** Once an email address has been verified, an email should be sent to the user. The email should have a link to reset the password, rather than send a new/temporary password. It is more secure to have them go to the website and enter the username and create a new password. The username should not be in the contents of the email with the link.

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