Student Result

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Exam: Python , Django , Angular Programming

Score: 15.0/45.0

Percentage: 33.33%

Question-wise Summary

| Sr.no | Question | Selected Answer | Correct Answer |
|-------|---|--|--|
| 1 | Which type of Programming does Python support? | all of the mentioned | all of the mentioned |
| 2 | What does the @staticmethod decorator do in a Python class? | Defines a method that requires a class instance to be called | Defines a method that doesn't receive an implicit first argument |
| 3 | In Django, which method is used to create database tables based on your models? | manage.py create_tables | manage.py makemigrations and manage.py migrate |

| 4 | What will be the output of the following Python code? def create_multipliers(): return [lambda x: i * x for i in range(4)] functions = create_multipliers() results = [f(2) for f in functions] print(results) | [0, 1, 2, 3] | [6, 6, 6, 6] |
|---|---|--------------|--------------|
| 5 | What will be the output of the following Python code? def create_funcs(): funcs = [] for i in range(3): def f(x, i=i): return x + i funcs.append(f) return funcs funcs = create_funcs() print([f(10) for f in funcs]) | [10, 11, 12] | [10, 11, 12] |

| 6 | What will | Calling | Calling |
|---|-----------------|---------|---------|
| | be the | add (2 | add (3 |
| | output of | times), | times), |
| | the | then 10 | then 10 |
| | following | | |
| | Python | | |
| | code? | | |
| | def | | |
| | logger(func): | | |
| | def | | |
| | wrapper(*args, | | |
| | **kwargs): | | |
| | print(f"Calling | | |
| | {funcname}}") | | |
| | return | | |
| | func(*args, | | |
| | **kwargs) | | |
| | return | | |
| | wrapper | | |
| | @logger | | |
| | def | | |
| | add(x, y): | | |
| | return x | | |
| | + y result | | |
| | = | | |
| | add(add(1, | | |
| | 2), | | |
| | add(3, | | |
| | 4)) | | |
| | print(result) | | |

| 7 | What will | 1 Hello | 2 Hello |
|---|---------------|---------|---------|
| | be the | | |
| | Output of | | |
| | the | | |
| | Following | | |
| | Code? | | |
| | class | | |
| | Weird: | | |
| | def | | |
| | init(self, | | |
| | x): self.x | | |
| | = x def | | |
| | eq(self, | | |
| | other): | | |
| | return | | |
| | self.x == | | |
| | other.x a | | |
| | = | | |
| | Weird(10) | | |
| | b = | | |
| | Weird(10) | | |
| | d = {a: | | |
| | "Hello", | | |
| | b: | | |
| | "World"} | | |
| | print(len(d), | | |
| | d[a]) | | |
| | | | |
| | | | |

| 9 | What will | Error at | 1, 2, |
|---|--------------------|----------|-----------|
| | be the | yield | Returned: |
| | Output | from | 3 |
| | Of the | | |
| | Following | | |
| | Code? | | |
| | def | | |
| | subgen(): | | |
| | yield 1 | | |
| | yield 2 | | |
| | return 3 | | |
| | def | | |
| | main(): | | |
| | result = | | |
| | yield | | |
| | from | | |
| | subgen() | | |
| | print("Returned:", | | |
| | result) g | | |
| | = main() | | |
| | for val in | | |
| | g: | | |
| | print(val) | | |
| | p(vai) | | |
| | | | |

| 10 | What will be the Output of the Following Code? class Key: definit(self, val): self.val = val defeq(self, other): return self.val == other.val k1 = Key(1) k2 = Key(1) d = {k1: 'a', k2: 'b'} print(len(d)) | Error | 2 |
|----|--|-------|---|
|----|--|-------|---|

| 11 | What will | Hello | dec1, |
|----|-----------------|-------|-------|
| | be the | | dec2, |
| | Output of | | Hello |
| | the | | |
| | Following | | |
| | Code? | | |
| | def | | |
| | dec1(func): | | |
| | def | | |
| | wrapper(*args): | | |
| | print("dec1") | | |
| | return | | |
| | func(*args) | | |
| | return | | |
| | wrapper | | |
| | def | | |
| | dec2(func): | | |
| | def | | |
| | wrapper(*args): | | |
| | print("dec2") | | |
| | return | | |
| | func(*args) | | |
| | return | | |
| | wrapper | | |
| | @dec1 | | |
| | @dec2 | | |
| | def | | |
| | hello(): | | |
| | print("Hello") | | |
| | hello() | | |
| | | | |

| 12 | What will be the Output of the Following Code? def sub(): yield 1 yield 2 return "Done" def main(): x = yield from sub() print("Subgen returned:", x) g = main() for i in g: print(i) | 1 2 Subgen returned: Done | 1 2 Subgen returned: Done |
|----|---|------------------------------|------------------------------|
| 13 | What will be the Output of the Following Code? ef func(a, L=[]): L.append(a) return L print(func(1)) print(func(2)) print(func(3)) | [1], [1, 2], [1, 2, 3] | [1], [1, 2], [1, 2, 3] |

| Which of | my model sayo() | MyModel.objects.b |
|-----------------------|---|---|
| | my_model.save() | Wywoder.objects.b |
| | | |
| | | |
| | | |
| | | |
| | | |
| model.save() | | |
| | | |
| signals | | |
| (pre_save/post_save)? | ? | |
| What will | Initial | Initial |
| | midai | initial |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| '{{ value | | |
| }}' }) | | |
| class | | |
| TestComponent | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| = | | |
| | | |
| 0); } } | | |
| What | Creates | Creates |
| | | a new |
| | | service |
| | | instance |
| | | |
| | | per |
| | component | component |
| | | |
| of | | |
| • | | |
| module) | | |
| | What will be printed? Component: @Component({ selector: 'app-test', template: '{{ value }}' }) class TestComponent implements OnInit { value = 'initial'; ngOnInit() { setTimeout(() => this.value = 'changed', 0); } } | the following operations will NOT trigger model.save() or signals (pre_save/post_save)? What will be printed? Component: @Component({ selector: 'app-test', template: '{{ value }}'})) class TestComponent implements OnInit { value = 'initial'; ngOnInit() { setTimeout(() => this.value = 'changed', 0); }} What does providing a service in the component component |

| 17 | n a | Angular | Angular |
|----|------------------------------------|----------------|------------------------|
| | Django + | uses | uses |
| | Angular | JWT | JWT |
| | арр | Auth | Auth |
| | using | and | and |
| | REST | doesn't | doesn't |
| | API, | send | send |
| | what is a | CSRF | CSRF |
| | good | tokens | tokens |
| | reason to | | |
| | disable | | |
| | CSRF | | |
| | middleware? | | |
| | | | |
| 18 | If an | Configure | Configure |
| | Angular | CORS_ORIGIN_AL | LOW_ALCORS_ORIGIN_ALLO |
| | frontend | in | in |
| | calls a | Django | Django |
| | Django | | |
| | API and | | |
| | receives | | |
| | a CORS | | |
| | error, | | |
| | what | | |
| | should | | |
| | be done? | | |
| | DO GONO. | | |
| 19 | What will | [0,1,2] | [0] |
| | be the | | |
| | Output of | | |
| | the | | |
| | Following | | |
| | Code? | | |
| | stack = [] | | |
| | for i in | | |
| | range(3): | | |
| | | | |
| | | | |
| | stack.append(i) | | |
| | stack.append(i) for i in | | |
| | stack.append(i) for i in range(2): | | |
| | stack.append(i) for i in | | |

| 20 | What will be the Output of the Following Code? s = "((())" stack = [] for ch in s: if ch == '(': stack.append(ch) else: if stack: stack.pop() | Invalid syntax | Extra '(' remaining |
|----|---|---|----------------------------|
| 21 | During project setup, if ng serve fails with the error "Local workspace file ('angular.json') could not be found", what is the likely issue? | The angular.json file is missing or misplaced | Problems with node_modules |
| 22 | In Angular, which file is used to define the set of modules, components, and services? | app.module.ts | app.module.ts |

| 23 | What will be the Output of the Following Code? def f(x, I=[]): for i in range(x): I.append(i*i) return I print(f(3)) print(f(2)) | [0, 1, 4] [0, 1, 4, 4] | [0, 1, 4, 0, 1] |
|----|--|--|--|
| 24 | In Angular (≥2+), what is the difference between NgModule.imports and NgModule.exports? | imports declares dependencies the module needs, exports makes parts available to other modules | imports declares dependencies the module needs, exports makes parts available to other modules |
| 25 | Which of these is a valid way to lazily load a module in Angular's router (from Angular 8+)? | { path: 'admin', module: AdminModule } | { path: 'admin', loadChildren: () => import('./admin/admin.n => m.AdminModule) } |

| 26 | Given | Author.objects.filter(books <u>Authorlletija.at</u>)s.filter |
|----|-----------------------|---|
| | the | |
| | following | |
| | models: | |
| | class | |
| | Author(models.Model): | |
| | name = | |
| | models.CharField(rnax | _length=100) |
| | class | |
| | Book(models.Model): | |
| | title = | |
| | models.CharField(rnax | _length=100) |
| | author = | |
| | models.ForeignKey(Au | thor, |
| | on_delete=models.CAS | SCADE, |
| | related_name='books') | |
| | Which of | |
| | these | |
| | queries | |
| | returns | |
| | all Author | |
| | instances | |
| | that have | |
| | no | |
| | books? | |

| 27 | What happens when you call save() on a Django model instance without specifying force_insert or force_update, and the instance has a primary key that already exists in the | It will do an UPDATE | It will do an UPDATE |
|----|---|---|--|
| 28 | the database? In Django REST Framework (DRF), what is the main function of SerializerMethodField | It serializes model relations automatically | It enables custom read-only fields whose value is computed by a method |

| 29 | Which of the following is the most efficient way to handle a large number of background tasks in Django? | Using threading module directly in views. | Integrating with a task queue like Celery. |
|----|--|---|---|
| 30 | How would you implement real-time communication (e.g., chat) in a Django application? | Relying solely on Django's built-in HttpRequest and HttpResponse. | Using Django Channels for WebSockets. |
| 31 | What is the primary purpose of ChangeDetectionStrate in Angular? | To force a full change detection cycle on egy.Orewesty browser event. | To improve performance by only checking for changes when input properties change or an event is explicitly triggered. |

| 32 | How can you ensure proper communication between two unrelated Angular components without a direct parent-child relationship? | Passing data through the URL parameters. | Utilizing a shared service with a Subject or BehaviorSubject. |
|----|--|--|---|
| 33 | When integrating Django as a backend and Angular as a frontend, what is the recommended approach for handling user authentication and authorization? | Relying solely on Django's session-based authentication without any Angular-side handling. | Implementing token-based authentication (e.g., JWT) where Django issues tokens and Angular stores and sends them. |

| 34 | What will be the Output of the Following Code? Python x = 10 def outer_func(): x = 5 def inner_func(): print(x) inner_func() outer_func() | 5 | 5 |
|----|---|---|---|
| 35 | What is the best data structure to implement a cache with FIFO eviction policy? | Неар | Queue + HashMap |
| 36 | What is the purpose of csrf_token in a Django form? | To prevent Cross-Site Request Forgery (CSRF) attacks by ensuring the request comes from your own site | To prevent Cross-Site Request Forgery (CSRF) attacks by ensuring the request comes from your own site |

| 37 | What is the main advantage of lazy loading feature modules in Angular? | It increases the initial bundle size for faster startup. | It allows for loading modules on demand, which reduces the initial application load time. |
|----|---|--|---|
| 38 | What is the main purpose of the RouterModule.forRoot() method in Angular? | To define routes for a lazy-loaded feature module. | To register the routing service and provide the router configuration for the root application module. |

| 39 | What is the difference between constructor and ngOnInit in an Angular component? | ngOnInit is for dependency injection, while constructor is for component initialization. | constructor is for dependency injection and simple initializations, while ngOnInit is for more complex logic that should run after the component's inputs are available. |
|----|--|--|--|
| 40 | What does the queryset attribute in a Django generic ListView define? | The template to be rendered. | The list of objects that the view will display |
| 41 | In the context of exception handling, what is the purpose of the finally block? | It is always executed, regardless of whether an exception occurred or not. | It is always executed, regardless of whether an exception occurred or not. |

| 42 | What does the pass statement do in Python? | It raises an exception. | It acts as a placeholder where code is syntactically required but no action is needed. |
|----|---|-------------------------------|--|
| 43 | How do you pass data from a child component back up to a parent component | It is not possible. | B) Using @Output() and an EventEmitter. |
| 44 | In the Django MVT (Model-View-Template) architecture, what is the "T"? | Template | Template |
| 45 | How do you pass data from a parent component to a child component? | Using a Router. | Using the @Input() decorator. |