Project Evaluation Criteria

Rubric Guide

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MINISTRY OF COMMUNICATIONS AND INFORMATION TECHNOLOGY

الاتحاد السعودي للأمن السيبراني والبرمجة والدرونز
SAUDI FEDERATION FOR CYBERSECURITY, PROGRAMMING & DRONES

مهارات المستقبل

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Grading Codes

1 : Does not meet expectations

2 : Average

3 : Above Average

4 : Top Student

5 : Excellent

Grades Distribution

One mark for each criteria

Time Management & Completion

1. Project Blueprint & User Stories.
2. Using Git meaningfully.
3. Coding Best Practices.
4. Delivery of project on time

Accuracy

1. No errors or bugs.
2. Using the programming language efficiently.
3. Good User Interface.
4. Feature Completion.

Project Blueprint

What do you want to make ?

- Project Name
- Project Description
- Features List
- Define the pages (home, log in, add item, view items, etc.)
- Define which group/s with access to each page (i.e. all, authors, admin, etc.)

User Stories

Who is the user of your application ?
- Define the end user or users (use multiple stories if more than one)
- Describe what can the end user do ?
- Use ordered steps
- As a [persona], I [want to] , [so That]

Example :
Appointments Application for Doctors

user : Doctor
As a doctor I want to log in using my email & password so that I can use the application.
As a doctor I want to list all my appointment for today so that I can prepare for the patients.

Using Git meaningfully

- Make clean , single purpose commits.
- Write meaningful commit messages .
- Commit early , commit often .
- At minimum commit once before the end of a work day.

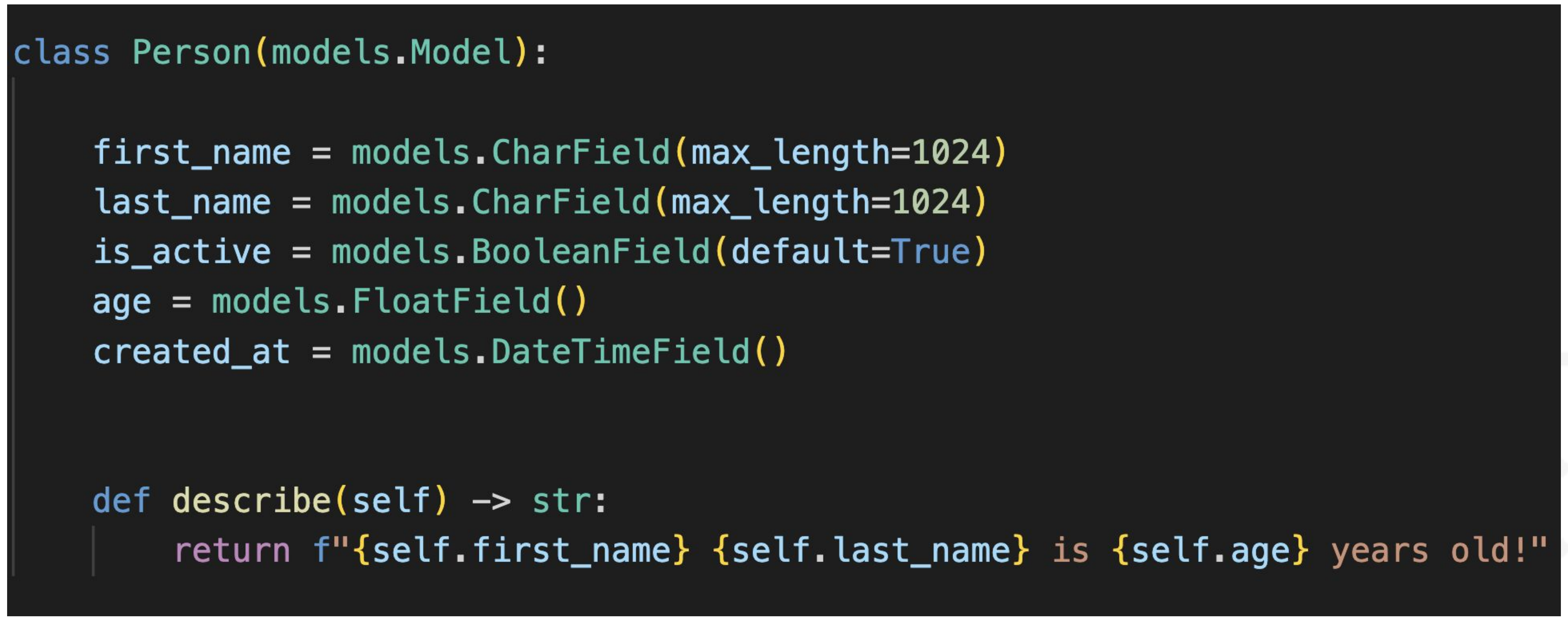
Coding Best Practices

- **Write readable code**
  Use descriptive naming for your variables, functions, classes, etc.
  Use proper indentation and lines.

- **Naming conventions**
  camelCase or snake_case : for variables, constants, functions
  PascalCase: for Classes

- **Document your code**
  At minimum use comments to describe your code

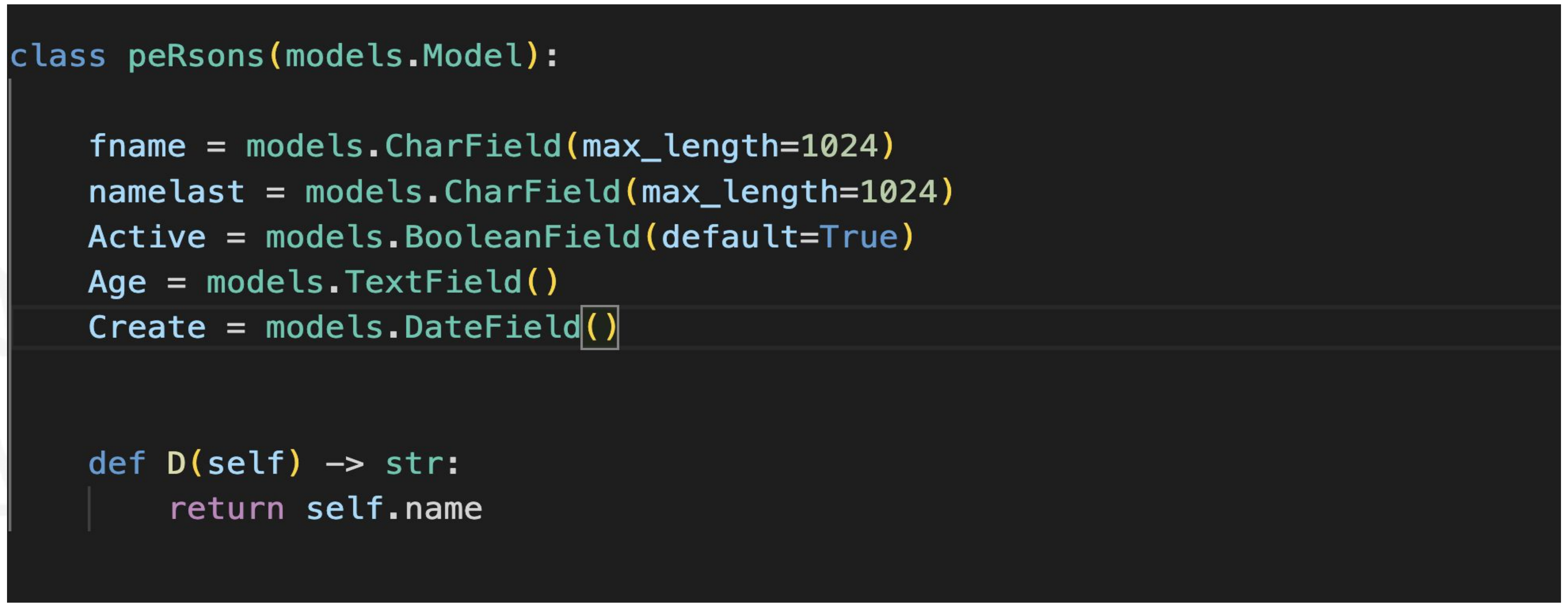
Example of Good Code vs Bad Code



```
class Person(models.Model):

    first_name = models.CharField(max_length=1024)
    last_name = models.CharField(max_length=1024)
    is_active = models.BooleanField(default=True)
    age = models.FloatField()
    created_at = models.DateTimeField()


    def describe(self) -> str:
        return f"{self.first_name} {self.last_name} is {self.age} years old!"
```



```
class peRsons(models.Model):

    fname = models.CharField(max_length=1024)
    namelast = models.CharField(max_length=1024)
    Active = models.BooleanField(default=True)
    Age = models.TextField()
    Create = models.DateField()


    def D(self) -> str:
        return self.name
```

No Errors in Code or Bugs

- No syntax errors.
  Errors due to syntax.

- No runtime errors.
  Errors happening at runtime, while launching or using the website.

- No bugs.
  Errors in calculations, logical errors, wrong output .

Using the programming language efficiently

- Using the correct data types
  Example: using an int for a person age rather than a string

- Using Classes, Dictionaries, List where appropriate

- Using conditionals, loops, exception handling where appropriate

User Interface

- <u>Looks Good and organized</u>
  Headers, text labels, images, buttons, and other page components are clear, positioned well and not overlapping.

- <u>Uniform Look</u>
  Use templates to make the website look uniform.

- <u>Styling</u>
  It should be at least use a stylesheet to style the content. You can use CSS libraries such as Bootstrap, Animate. You can use custom fonts, etc.

Feature Completion

- <u>All planned features are included</u>
  All the features described by the project blueprint .

- <u>Features work as expected</u>
  The application features produce the intended results.

- <u>Website is cohesive</u>
  It is interconnected . You know where you are , and how to go back.
  Pages are linked.

Google | طويق 1000

Thank You..

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