**Coding Conventions and Guidelines**

**Naming Convention**

1. **General:** 
   * Avoid using names that are too general or too wordy. For example:

Bad Practice: *data\_structure, my\_list, info\_map*

✓Good Practice: user\_profile, event\_list

1. **Packages & Modules:** 
   * Use lowercase with underscores. For example- user\_routes, admin\_views, event\_controller.
2. **Classes:**
   * Use PascalCase. For example- UserModel, EventForm, DashboardView
   * Class Attributes:

Models – m\_prefix. For example- m\_user\_id, m\_email

Forms- f\_prefix. Form example- f\_password, f\_name

1. **Variables:** 
   * Use Snake\_case for all variables. For example- event\_name, user\_email
   * Use is\_prefix for Boolean. For example- is\_attending, is\_admin
   * Use plural for collections. For example- users, teams etc.
   * Use n\_prefix for Count. For example- n\_events, n\_teams

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1. **Functions & Methods:** 
   * Use lowercase with snake\_case. For example- create\_event(), get\_user()
   * Use prefix with \_ for non-public. For example- \_validate\_input()
   * First argument in class methods should be self.
2. **Constants**
   * Use UPPERCASE with underscores for constants. For example- MAX-LOGIN-ATTEMPTS, DEFAULT\_ROLE.

# Code Layout

1. **Indentation:**
   * + Use 4 spaces per indentation level.
     + No tabs, only spaces.
2. **Line Length:**
   * + Max: 79 characters per line.
     + Break long lines after operators when needed
3. **Blank Lines:**
   * + Two blank lines between class/functions.
     + One blank line inside class methods.
     + Use blank line inside class methods.
4. **Whitespace Rules:** 
   * + Spaces inside () or []
     + Spaces before commas, semicolons, colons
     + Uneven spaces around =, +, etc