# **ENCOMPASS**





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**Coding Standards** 



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# Introduction

The coding standards outlined in this document provide guidelines and best practices to be followed during the development of Encompass. Adhering to these standards will contribute to a consistent, maintainable, and efficient codebase. The following sub-topics are covered in this document:

#### 1. Header Information in Files:

Header information provides important details about a file's purpose, authorship, and modification history. It is essential for clear documentation and version control. This section will define the required information and formatting for header comments in Encompass files.

#### 2. Header Information for Functions:

Clear and informative function headers aid in understanding the purpose, parameters, and return values of functions. This section will specify the recommended format and content for function headers to ensure code readability and ease of maintenance.



#### 3. Naming Conventions:

Consistent and meaningful naming conventions enhance code comprehension and maintainability. This section will outline the preferred naming conventions for variables, functions, classes, and other elements in the Encompass codebase.

### 4. API Responses:

Well-structured and consistent API responses improve interoperability and ease of integration with other systems. This section will define the guidelines for formatting API responses, including status codes, error handling, and data structures.

#### 5. File Structure:

An organized file structure simplifies navigation and promotes modular design. This section will provide recommendations for organizing files within Encompass, including the placement of source code files, configuration files, and assets.

### 6. Repository Structure:

An efficient repository structure facilitates collaboration, version control, and code sharing. This section will outline the suggested structure for the Encompass repository, including branches, directories, and file organization.



# **Coding Standards**

Header Information in files:

- Filename
- Authour(s)
- Date Created
- Description of File

Header Information for Functions:

- Description
- Return type & value

```
//description: function executes the account creation request
//returns: account ID from database
async execute({ createAccountRequest }: CreateAccountCommand){
const { email, password } = createAccountRequest;
const account = this.eventPublisher.mergeObjectContext(
await this.accountFactory.create(email, password),
);
account.commit();

// console.log(account._id)
return account._id;
}

// console.log(account._id)
return account._id;
}
```



## Naming conventions:

- All our variables are named with small-letter words, at times it is phrases, merged into one word.
- Object types are named with words, starting with capital letters.

```
5 @CommandHandler(CreateAccountCommand)
6 export class CreateAccountHandler
7 | implements ICommandHandler<CreateAccountCommand>{
8 constructor(
9 | private readonly accountFactory: AccountFactory,
10 | private readonly eventPublisher: EventPublisher,
11 |) {}
```

### API Responses:

- 200 no errors returned
- 400 incomplete request error message
- 403 user authentication failed
- 404 resource not found in database
- 409 user already exists
- 500 internal server errors occur

#### File Structure:

- The working code is in two folders:
  - o App
  - o Api



- Each feature has a subfolder in the App (front-end code) and Api(back-end) folders.
- In API folder, each feature has the following folders:
  - o commands
  - o database
  - o dto
  - o events
  - o lib
  - o queries
- In APP folder, each feature has the following folders:
  - data-access
  - o feature
  - o util
- Folders have respective .ts, .scss, .html, .json files.

#### Repository Structure:

- Dev branch is the main branch.
- Each feature has its own branch, which is merged into the dev branch after development. This is to safe keep code in the dev branch and heighten the coding consistency.

# Conclusion

By adhering to the above coding standards, the Encompass development team will create a cohesive and maintainable codebase that supports scalability, extensibility, and ease of collaboration. Consistency in coding practices will streamline code reviews, enhance productivity, and contribute to the long-term success of the Encompass project.

