

NABU Code Standard (Version 1.0)

Clear, simple, enforceable coding rules for the whole team.

1. General Style Rules

1.1 Formatting

- 2 spaces indentation
- Semicolons **required**
- Max line length: **100 characters**
- Prettier + ESLint enforced
- No tabs, consistent spacing everywhere

1.2 Naming Conventions

Item	Convention	Example
Variables	camelCase	userId, accessToken
Functions	camelCase	createUser()
Classes	PascalCase	UserController
Backend files	kebab-case.js	auth-controller.js
Frontend files	PascalCase.vue	LoginForm.vue
Environment variables	UPPER_CASE	DB_PASSWORD

2. Backend (Node.js + Express)

2.1 Project Structure

```
server/
  |-- controllers/
  |-- routes/
  |-- services/
  |-- middleware/
  |-- db/
  |-- utils/
  |-- tests/
```

2.2 Controllers

- Controllers **must not contain business logic**

- Every controller wrapped in try/catch
- Standard API response format:

```
{
  "success": true,
  "data": {},
  "error": null
}

On error:

{
  "success": false,
  "error": { "message": "string", "code": 400 }
}
```

2.3 Services

- Contain the actual logic (validation, DB actions)
 - Never use req or res
 - Prefer pure functions
-

3. Error & Response Handling

3.1 Throw errors — don't send responses inside services

Bad

```
return res.status(400).json({ error: 'Missing email' });
```

Good

```
throw new ApiError(400, 'Missing email');
```

3.2 Global Error Middleware

```
app.use((err, req, res, next) => {
  res.status(err.code || 500).json({
    success: false,
    error: { message: err.message, code: err.code }
  });
});
```

4. Testing (Jest + Supertest)

4.1 Test Structure

server/tests/

```
|— auth.test.js  
|— user.test.js  
|— db.test.js
```

4.2 Required Tests

Each endpoint must have at least:

- success case
- validation error case
- database failure case

4.3 Test Example

```
describe("POST /api/signup", () => {  
  it("should return 400 if email is missing", async () => {  
    const res = await request(app).post("/api/signup").send({});  
    expect(res.status).toBe(400);  
    expect(res.body.error).toBeDefined();  
  });  
});
```

5. Git Workflow

5.1 Branch Names

```
feature/signup-endpoint  
bugfix/login-nullpointer  
refactor/user-service  
tests/auth-tests
```

5.2 Commit Messages

- English
- Short and meaningful

Examples:

```
feat(auth): implement JWT login  
fix(db): handle null user object  
test(user): add missing validation tests
```

6. Security Rules

- Never log passwords or sensitive data
 - Use bcrypt for password hashing
 - Always validate inputs (Joi/Zod preferred)
 - Never use raw SQL strings → use prepared statements
 - JWT tokens: HS256, expiry max **1 hour**
 - .env must never be committed
-

7. Frontend (React or Vue)

7.1 Component Rules

- Use Composition API (Vue) or functional components (React)
- Props & emits must be typed (TypeScript recommended)
- Components should stay below **250 lines**
- No inline CSS → use Tailwind or scoped CSS

7.2 API Calls

- All API requests must be placed in /services/api.js or /lib/api.ts
- Standard API return shape:

```
return { success, data, error };
```

8. Documentation

8.1 JSDoc Required for Services

```
/**  
 * Creates a new user  
 * @param {Object} userData  
 * @returns {Promise<Object>}  
 */
```

8.2 README Must Include

- Setup
- Environment variables
- Start scripts
- Testing instructions