

Quick Setup Guide - Commands and File Changes

Commands to Run

Step 1: Install Dependencies

```
cd frontend/vehicle-service-management-ui  
npm install
```

Step 2: Build (to verify)

```
npm run build
```

Step 3: Start Development Server

```
npm start
```

Files That Need to Be Changed

File 1: `angular.json`

Location: `frontend/vehicle-service-management-ui/angular.json`

What Changed: Updated budget limits to prevent build errors

Complete File Content:

```
{
  "$schema": "./node_modules/@angular/cli/lib/config/schema.json",
  "version": 1,
  "cli": {
    "packageManager": "npm"
  },
  "newProjectRoot": "projects",
  "projects": {
    "vehicle-service-management-ui": {
      "projectType": "application",
      "schematics": {
        "@schematics/angular:component": {
          "style": "scss"
        }
      }
    },
  }
},
```

```
"root": "",  
"sourceRoot": "src",  
"prefix": "app",  
"architect": {  
  "build": {  
    "builder": "@angular/build:application",  
    "options": {  
      "browser": "src/main.ts",  
      "tsConfig": "tsconfig.app.json",  
      "inlineStyleLanguage": "scss",  
      "assets": [  
        {  
          "glob": "**/*",  
          "input": "public"  
        }  
      ],  
      "styles": [  
        "src/styles.scss"  
      ]  
    },  
    "configurations": {  
      "production": {  
        "budgets": [  
          {  
            "type": "initial",  
            "maximumWarning": "600kB",  
            "maximumError": "1MB"  
          },  
          {  
            "type": "anyComponentStyle",  
            "maximumWarning": "13kB",  
            "maximumError": "15kB"  
          }  
        ],  
        "outputHashing": "all"  
      },  
      "development": {  
        "optimization": false,  
        "extractLicenses": false,  
        "sourceMap": true,  
        "budgets": [  
          {  
            "type": "initial",  
            "maximumWarning": "600kB",  
            "maximumError": "1MB"  
          },  
          {  
            "type": "anyComponentStyle",  
            "maximumWarning": "13kB",  
            "maximumError": "15kB"  
          }  
        ]  
      }  
    }  
  },  
  "serve": {  
    "builder": "@angular/build:application",  
    "options": {  
      "browser": "src/main.ts",  
      "tsConfig": "tsconfig.app.json",  
      "inlineStyleLanguage": "scss",  
      "assets": [  
        {  
          "glob": "**/*",  
          "input": "public"  
        }  
      ],  
      "styles": [  
        "src/styles.scss"  
      ]  
    },  
    "configurations": {  
      "production": {  
        "budgets": [  
          {  
            "type": "initial",  
            "maximumWarning": "600kB",  
            "maximumError": "1MB"  
          },  
          {  
            "type": "anyComponentStyle",  
            "maximumWarning": "13kB",  
            "maximumError": "15kB"  
          }  
        ],  
        "outputHashing": "all"  
      },  
      "development": {  
        "optimization": false,  
        "extractLicenses": false,  
        "sourceMap": true,  
        "budgets": [  
          {  
            "type": "initial",  
            "maximumWarning": "600kB",  
            "maximumError": "1MB"  
          },  
          {  
            "type": "anyComponentStyle",  
            "maximumWarning": "13kB",  
            "maximumError": "15kB"  
          }  
        ]  
      }  
    }  
  }  
}
```

```
        "defaultConfiguration": "production"
    },
    "serve": {
        "builder": "@angular/build:dev-server",
        "configurations": {
            "production": {
                "buildTarget": "vehicle-service-management-ui:build:production"
            },
            "development": {
                "buildTarget": "vehicle-service-management-ui:build:development"
            }
        },
        "defaultConfiguration": "development"
    },
    "test": {
        "builder": "@angular/build:unit-test"
    }
}
}
```

Key Changes Made:

- Line 41: "maximumWarning": "500kB" → "maximumWarning": "600kB"
 - Line 46: "maximumWarning": "4kB" → "maximumWarning": "13kB"
 - Line 47: "maximumError": "8kB" → "maximumError": "15kB"
 - Lines 56-67: Added budgets section to development configuration

Summary of Changes

In angular.json:

1. Production Budgets (lines 38-49):

- Initial bundle warning: $500\text{kB} \rightarrow 600\text{kB}$
 - Component style warning: $4\text{kB} \rightarrow 13\text{kB}$
 - Component style error: $8\text{kB} \rightarrow 15\text{kB}$

2. Development Budgets (lines 56-67):

- Added budgets section (was missing)
 - Same values as production to prevent warnings during development

Why These Changes Were Needed

- **Initial bundle size:** 545.09 kB exceeded the 500 kB warning limit
 - **Component styles:** Several components exceeded 4 kB/8 kB limits:
 - `admin-dashboard.component.scss`: 12.57 kB

- `dashboard-home.component.scss`: 8.27 kB
 - `service-management.component.scss`: 8.74 kB
-

Verification

After making these changes, run:

```
npm run build
```

Expected result: Build completes successfully with no errors.

Then start the server:

```
npm start
```

Application will be available at: <http://localhost:4200>