



17. Loyiha

Reja:

▼ Loyiha tuzilishi (structure)




Loyihaning tuzilishi ya'ni fayllarning qanday joylashganligi juda muhim ahamiyatga ega. Odatda o'zgaruvchilar, mixinlar, funksiyalar, layout, sahifalar o'zining fayllariga ega bo'lib, oxir oqibat bir markaziy faylda birlashtiriladi.

```
├─ styles/
│   └─ sass/
│       ├── abstract/
│       │   ├── _variables.scss // o'zgaruvchilar
│       │   ├── _mixins.scss    // mixinlar
│       │   └─ base/
│       │       ├── _base.scss // *, html, body stillar / CSS reset
│       │       ├── _typography.scss // font'ga tegishli bo'lgan stillar
│       │       └─ components/ // qayti ishlatishga mo'ljallangan komponent stillari
│       │           ├── _component1.scss
│       │           ├── _component2.scss
│       │           └─ layout/ // layout stillari
│       │               ├── _footer.scss
│       │               └─ _header.scss
│       ├── pages/ // ma'lum bir sahifaga tegishli bo'lgan stillar
│       │   ├── _page1.scss
│       │   └─ _page2.scss
│       ├── main.scss // markaziy stillar fayli
│   └─ css/
│       └─ style.css
```

How to Set Your Project Up With Sass

If you're here, I'm going to assume you already know what Sass is and just want to do the damn thing. This guide is also specific to the .scss syntax of Sass. This assumes you already have a package.json file. If not, run npm init and enter through for the default values.

 <https://dev.to/darnocer/how-to-setup-your-project-with-sass-scss-ip4>

How to Set Your Project Up With Sass



Sass/SCSS Project Structure Tutorial | KoderHQ

One of the main benefits of using a CSS preprocessor like Sass, is the ability to split our codebase over several files without negatively impacting performance. It's recommended to use as many split files as necessary for development, and compiling them into a single file for production.

 <https://www.koderhq.com/tutorial/sass/project-structure/>

▼ Loyiha qismlari

▼ Abstract



O'zgaruvchilar, funksiyalar va mixinlar joylashadigan qism.

```
// abstract/_variables.scss

$primary-bg-color: #2C3F51;
$secondary-bg-color: #19BC9C;

$primary-text-color: #FFFFFF;
$secondary-text-color: #2C3E51;
```

```
// abstract/_functions.scss

@function set-text-color($color) {
  @if (lightness($color) > 50%) {
    @return #000000;
  }

  @else {
    @return #FFFFFF;
  }
}
```

```
// abstract/_mixins.scss

@mixin media-sm {
  @media screen and (min-width: 576px) {
    @content;
  }
}

@mixin media-md {
  @media screen and (min-width: 768px) {
    @content;
  }
}

@mixin media-lg {
  @media screen and (min-width: 992px) {
    @content;
  }
}

@mixin media-xl {
  @media screen and (min-width: 1200px) {
    @content;
  }
}

@mixin transition-ease {
  transition: all 1s ease-in-out;
}
```

▼ Base



Veb sahifamizning asosi ya'ni *, html, body, CSS reset va font'ga tegishli bo'lgan stillar joylashadigan qism

```
// base/_base.scss

* {
  box-sizing: border-box;
  margin: 0;
  padding: 0;
}

html {
  height: 100vh;
}

a {
  text-decoration: none;
}
```

```
// base/_typography.scss

html,
body {
  font-family: Arial, Helvetica, sans-serif;
}
```

▼ Components



Qayta ishlatishga mo'ljallangan komponent stillari

```
// components/_menu.scss

@use '../abstract/variables';
@use '../abstract/functions';
@use '../abstract/mixins';

.nav {
  display: flex;
  align-items: center;
  justify-content: space-between;
  width: 100%;
  padding: 20px;
  background-color: variables.$primary-bg-color;

  &__brand {
    font-size: 36px;
    color: functions.set-text-color(variables.$primary-bg-color);
  }
}

.nav-menu {
  display: none;
  align-items: center;
  list-style: none;

  &__item {
    padding: 10px 20px;
  }

  &__link {
    color: functions.set-text-color(variables.$primary-bg-color);
  }
}

@include mixins.media-sm {
  .nav-menu {
    display: flex;
  }
}
```

▼ Layout



Layout'ga tegishli bo'lgan stillar: header, footer, sidebar va h.k

```
// layout/_container.scss

@use '../abstract/mixins';

.container {
  width: 90%;
}

@include mixins.media-sm {
  .container {
    width: 600px;
  }
}

@include mixins.media-md {
  .container {
    width: 700px;
  }
}
```

```

@include mixins.media-lg {
  .container {
    width: 900px;
  }
}

@include mixins.media-xl {
  .container {
    width: 1000px;
  }
}

```

```

// layout/_header.scss

.header {
  width: 100%;
  margin-bottom: 20px;
}

```

```

// layout/_footer.scss

@use "../abstract/variables" as vars;
@use "../abstract/functions" as funcs;
@use '../abstract/mixins';

.footer {
  padding: 20px 40px;
  text-align: center;
  color: funcs.set-text-color(vars.$primary-bg-color);
  background-color: vars.$primary-bg-color;
}

@include mixins.media-md {
  .footer {
    position: fixed;
    bottom: 0;
    width: 100%;
  }
}

```

```

// layout/_index.scss

@use "header";
@use "footer";
@use "container";

```

▼ Pages



Ma'lum bir sahifaga tegishli bo'lgan stillar: asosiy, bog'lanish, biz haqimizda va h.k

```

// pages/_home.scss

@use "../abstract/variables";
@use "../abstract/mixins";

.home {
  margin: 0 auto;
  padding: 50px;
  text-align: center;

  &__image {
    width: 200px;
    margin: 0 auto;

    img {
      width: 100%;
    }
  }
}

```

```

}

&__title {
  margin-top: 20px;
  font-size: 48px;
  color: variables.$secondary-text-color;
  cursor: pointer;

  &:hover {
    font-size: 56px;
    @include mixins.transition-ease;
  }
}

&__description {
  margin-top: 40px;
  color: variables.$secondary-text-color;
}
}
}

```



main.scss - markaziy stillar fayli, boshqa fayllardagi stillarni bir joyga jamlab beruvchi fayl

```

// main.scss

@use "base/base";
@use "base/typography";
@use "components/menu";
@use "layout";
@use "pages/home";

```

index.html

```

<!DOCTYPE html>
<html lang="en">

<head>
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <link rel="stylesheet" href="css/main.css">
  <title>SASS kurs loyihasi</title>
</head>

<body>
  <header class="header">
    <nav class="nav">
      <div class="nav__brand">
        Portfolio
      </div>

      <ul class="nav-menu">
        <li class="nav-menu__item">
          <a href="#" class="nav-menu__link">
            Asosiy
          </a>
        </li>
        <li class="nav-menu__item">
          <a href="#" class="nav-menu__link">
            Loyihalarim
          </a>
        </li>
        <li class="nav-menu__item">
          <a href="#" class="nav-menu__link">
            Bog'lanish
          </a>
        </li>
      </ul>
    </nav>
  </header>

  <main class="home container">
    <div class="home__image">
      
    </div>

```

```
<h1 class="home__title">
  Portfolio vebsayt
</h1>
<p class="home__description">
  Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy tex
</p>
</main>

<footer class="footer">
  Copyright 2021
</footer>
</body>

</html>
```