**Experiment No 09**

**Aim**: To implement Service worker events like fetch, sync and push for E-commerce PWA.

**Code**:

***index.html***

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<meta http-equiv="X-UA-Compatible" content="ie=edge">

<title>Food Ninja</title>

<!-- materialize icons, css & js -->

<link type="text/css" href="C:\Users\Aakas\Desktop\MAD & PWA\Exp 9\pwa-tutorial-lesson-10/css/materialize.min.css" rel="stylesheet">

<link href="https://fonts.googleapis.com/icon?family=Material+Icons" rel="stylesheet">

<link type="text/css" href="C:\Users\Aakas\Desktop\MAD & PWA\Exp 9\pwa-tutorial-lesson-10/css/styles.css" rel="stylesheet">

<script type="text/javascript" src="C:\Users\Aakas\Desktop\MAD & PWA\Exp 9\pwa-tutorial-lesson-10/js/materialize.min.js"></script>

<link rel="manifest" href="C:\Users\Aakas\Desktop\MAD & PWA\Exp 9\pwa-tutorial-lesson-10/manifest.json">

<!-- ios support -->

<link rel="apple-touch-icon" href="C:\Users\Aakas\Desktop\MAD & PWA\Exp 9\pwa-tutorial-lesson-10/img/icons/icon-96x96.png">

<meta name="apple-mobile-web-app-status-bar" content="#FFE1C4">

</head>

<body class="grey lighten-4">

<!-- top nav -->

<nav class="z-depth-0">

<div class="nav-wrapper container">

<a href="/">Food<span>Ninja</span></a>

<span class="right grey-text text-darken-1">

<i class="material-icons sidenav-trigger" data-target="side-menu">menu</i>

</span>

</div>

</nav>

<!-- side nav -->

<ul id="side-menu" class="sidenav side-menu">

<li><a class="subheader">FOODNINJA</a></li>

<li><a href="/" class="waves-effect">Home</a></li>

<li><a href="C:\Users\Aakas\Desktop\MAD & PWA\Exp 9\pwa-tutorial-lesson-10/pages/about.html" class="waves-effect">About</a></li>

<li><div class="divider"></div></li>

<li><a href="C:\Users\Aakas\Desktop\MAD & PWA\Exp 9\pwa-tutorial-lesson-10/pages/contact.html" class="waves-effect">

<i class="material-icons">mail\_outline</i>Contact</a>

</li>

</ul>

<!-- recipes -->

<div class="recipes container grey-text text-darken-1">

<div class="card-panel recipe white row">

<img src="C:\Users\Aakas\Desktop\MAD & PWA\Exp 9\pwa-tutorial-lesson-10/img/dish.png" alt="recipe thumb">

<div class="recipe-details">

<div class="recipe-title">Edame Noodles</div>

<div class="recipe-ingredients">Edame Beans, Noodels, Garlic oil</div>

</div>

<div class="recipe-delete">

<i class="material-icons">delete\_outline</i>

</div>

</div>

<div class="card-panel recipe white row">

<img src="C:\Users\Aakas\Desktop\MAD & PWA\Exp 9\pwa-tutorial-lesson-10/img/dish.png" alt="recipe thumb">

<div class="recipe-details">

<div class="recipe-title">Edame Noodles</div>

<div class="recipe-ingredients">Edame Beans, Noodels, Garlic oil</div>

</div>

<div class="recipe-delete">

<i class="material-icons">delete\_outline</i>

</div>

</div>

<div class="card-panel recipe white row">

<img src="C:\Users\Aakas\Desktop\MAD & PWA\Exp 9\pwa-tutorial-lesson-10/img/dish.png" alt="recipe thumb">

<div class="recipe-details">

<div class="recipe-title">Edame Noodles</div>

<div class="recipe-ingredients">Edame Beans, Noodels, Garlic oil</div>

</div>

<div class="recipe-delete">

<i class="material-icons">delete\_outline</i>

</div>

</div>

<div class="card-panel recipe white row">

<img src="C:\Users\Aakas\Desktop\MAD & PWA\Exp 9\pwa-tutorial-lesson-10/img/dish.png" alt="recipe thumb">

<div class="recipe-details">

<div class="recipe-title">Edame Noodles</div>

<div class="recipe-ingredients">Edame Beans, Noodels, Garlic oil</div>

</div>

<div class="recipe-delete">

<i class="material-icons">delete\_outline</i>

</div>

</div>

</div>

<div class="center">

<a class="btn-floating btn-small btn-large add-btn sidenav-trigger" data-target="side-form">

<i class="material-icons">add</i>

</a>

</div>

<!-- add recipe side nav -->

<div id="side-form" class="sidenav side-form">

<form class="add-recipe container section">

<h6 >New Recipe</h6>

<div class="divider"></div>

<div class="input-field">

<input placeholder="e.g. Ninja soup" id="title" type="text" class="validate">

<label for="title">Recipe Title</label>

</div>

<div class="input-field">

<input placeholder="e.g. Tofu, mushroom, garlic" id="ingredients" type="text" class="validate">

<label for="ingredients">Ingredients</label>

</div>

<div class="input-field center">

<button class="btn-small">Add</button>

</div>

</form>

</div>

<script src="C:\Users\Aakas\Desktop\MAD & PWA\Exp 9\pwa-tutorial-lesson-10/js/app.js"></script>

<script src="C:\Users\Aakas\Desktop\MAD & PWA\Exp 9\pwa-tutorial-lesson-10/js/ui.js"></script>

</body>

</html>

***sw.js***

self.addEventListener('fetch', function(event) {

event.respondWith(

caches.match(event.request)

.then(function(response) {

if (response) {

return response;

}

return fetch(event.request);

}

)

);

});

// Register your service worker:

navigator.serviceWorker.register('/sw.js');

// Then later, request a one-off sync:

navigator.serviceWorker.ready.then(function(swRegistration) {

return swRegistration.sync.register('myFirstSync');

});

self.addEventListener('sync', function(event) {

if (event.tag == 'myFirstSync') {

event.waitUntil(doSomeStuff());

}

});

self.addEventListener(

"push",

(event) => {

let message = event.data.json();

switch (message.type) {

case "init":

doInit();

break;

case "shutdown":

doShutdown();

break;

}

},

false

);

***manifest.json***

{

"name": "Food Ninja",

"short\_name": "FoodNinja",

"start\_url": "/index.html",

"display": "standalone",

"background\_color": "#FFE9D2",

"theme\_color": "#FFE1C4",

"orientation": "portrait-primary",

"icons": [

{

"src": "/img/icons/icon-72x72.png",

"type": "image/png",

"sizes": "72x72"

},

{

"src": "/img/icons/icon-96x96.png",

"type": "image/png",

"sizes": "96x96"

},

{

"src": "/img/icons/icon-128x128.png",

"type": "image/png",

"sizes": "128x128"

},

{

"src": "/img/icons/icon-144x144.png",

"type": "image/png",

"sizes": "144x144"

},

{

"src": "/img/icons/icon-152x152.png",

"type": "image/png",

"sizes": "152x152"

},

{

"src": "/img/icons/icon-192x192.png",

"type": "image/png",

"sizes": "192x192"

},

{

"src": "/img/icons/icon-384x384.png",

"type": "image/png",

"sizes": "384x384"

},

{

"src": "/img/icons/icon-512x512.png",

"type": "image/png",

"sizes": "512x512"

}

]

}

***app.js***

if('serviceWorker' in navigator){

navigator.serviceWorker.register('/sw.js')

.then(reg => console.log('service worker registered', reg))

.catch(err => console.log('service worker not registered', err));

}

***ui.js***

document.addEventListener('DOMContentLoaded', function() {

// nav menu

const menus = document.querySelectorAll('.side-menu');

M.Sidenav.init(menus, {edge: 'right'});

// add recipe form

const forms = document.querySelectorAll('.side-form');

M.Sidenav.init(forms, {edge: 'left'});

});

**Output**:

