

```
// Copyright (c) 2017 Tracktunes Inc
```

```
import {
  Alert,
  AlertController,
  ActionSheet,
  ActionSheetController,
  Content,
  ItemSliding,
  ModalController,
  NavController,
  Platform
} from 'ionic-angular';
import {
  ChangeDetectorRef,
  Component,
  ViewChild
} from '@angular/core';
import { alertAndDo } from '../models/utils/alerts';
import { AppState } from '../services/app-state/app-state';
import { ButtonBarButton } from '../components/button-bar/button-bar';
import {
  DB_KEY_PATH,
  KeyDict,
  ParentChild,
  ROOT_FOLDER_KEY,
  TreeNode
} from '../models/idb/idb-fs';
import { EditSelectionPage } from '../edit-selection-page/edit-selection-page';
import { FS } from '../models/filesystem/filesystem';
import { isPositiveWholeNumber, isUndefined } from '../models/utils/utils';
import { MoveToPage, TrackPage } from '../';

const REQUEST_SIZE: number = 1024 * 1024 * 1024;

/**
 * @name OrganizerPage
 * @description
 * Page of file/folder interface to all recorded files. AddFolderPage
 * music organizer.
 */
@Component({
  selector: 'organizer-page',
  templateUrl: 'organizer-page.html'
})
export class OrganizerPage {
  @ViewChild(Content) public content: Content;
  private fileSystem: FileSystem;
  public entries: Entry[];
  // UI uses directoryEntry
  public directoryEntry: DirectoryEntry;
  // UI uses headerButtons
  public headerButtons: ButtonBarButton[];
  // UI uses footerButtons
  public footerButtons: ButtonBarButton[];
  private navCtrl: NavController;
  // actionSheetController is used by add button
  private actionSheetController: ActionSheetController;
  private alertController: AlertController;
  private modalController: ModalController;
  private changeDetectorRef: ChangeDetectorRef;
  private appState: AppState;
  // UI uses selectedEntries
  private selectedEntries: Set<string>;

  /**
   * @constructor
   * @param {NavController}
   * @param {AlertController}
   */
}
```

```

  * @param {ModalController}
  * @param {AppState}
  * @param {Platform}
  */
  constructor(
    navCtrl: NavController,
    alertController: AlertController,
    actionSheetController: ActionSheetController,
    modalController: ModalController,
    changeDetectorRef: ChangeDetectorRef,
    appState: AppState,
    platform: Platform
  ) {
    console.log('constructor():OrganizerPage');
    this.appState = appState;
    this.changeDetectorRef = changeDetectorRef;
    this.fileSystem = null;
    this.entries = [];
    this.directoryEntry = null;
    this.selectedEntries = new Set<string>();
    this.actionSheetController = actionSheetController;

    appState.getProperty('selectedEntries').then(
      (selectedEntries: Set<string>) => {
        this.selectedEntries = selectedEntries;
        this.detectChanges();
      }
    );

    // get the filesystem
    FS.getFileSystem(true, REQUEST_SIZE).subscribe(
      (fileSystem: FileSystem) => {
        // remember the filesystem you got
        this.fileSystem = fileSystem;
        // create the /Unfiled/ folder if not already there
        FS.getPathEntry(fileSystem, '/Unfiled/', true).subscribe(
          (directoryEntry: DirectoryEntry) => {
            console.log('Created /Unfiled/');
            // get last viewed folder to switch to it
            appState.getProperty('lastViewedFolderPath').then(
              (path: string) => {
                this.switchFolder(path, false);
              }
            ); // State.getProperty('lastViewedFolderPath').then(..
          },
          (err3: any) => {
            alert('err3: ' + err3);
          }
        ); // FS.getPathEntry(..).subscribe(..
      }
    ); // FS.getFileSystem(true).subscribe(..

    this.navCtrl = navCtrl;
    this.alertController = alertController;
    this.modalController = modalController;

    // helper function used in disabledCB below
    const atHome: () => boolean = () => {
      return this.directoryEntry &&
        this.directoryEntry.name === '' &&
        this.directoryEntry.fullPath === '/';
    };

    this.headerButtons = [
      {
        text: 'Select...',
        leftIcon: platform.is('ios') ?
          'radio-button-off' : 'square-outline',
        rightIcon: 'md-arrow-dropdown',
      }
    ]
  }
}
```

```

        clickCB: () => {
            this.onClickSelectButton();
        },
        disabledCB: () => {
            return this.entries.length <= 1;
        }
    },
    {
        text: 'Go home',
        leftIcon: 'home',
        clickCB: () => {
            this.onClickHomeButton();
        },
        disabledCB: atHome
    },
    {
        text: 'Go to parent',
        leftIcon: 'arrow-up',
        rightIcon: 'folder',
        // rightIcon: 'ios-folder-outline',
        clickCB: () => {
            this.onClickParentButton();
        },
        disabledCB: atHome
    },
    {
        text: 'Add...',
        leftIcon: 'add',
        clickCB: () => {
            this.onClickAddButton();
        }
    }
];

this.footerButtons = [
    {
        text: 'Info',
        leftIcon: 'information-circle',
        clickCB: () => {
            this.onClickInfoButton();
        }
    },
    {
        text: 'Move to...',
        leftIcon: 'share-alt',
        rightIcon: 'folder',
        clickCB: () => {
            this.onClickMoveButton();
        },
        disabledCB: () => {
            return this.moveButtonDisabled();
        }
    },
    {
        text: 'Delete',
        leftIcon: 'trash',
        clickCB: () => {
            this.onClickDeleteButton();
        },
        disabledCB: () => {
            return this.deleteButtonDisabled();
        }
    },
    {
        text: 'Share',
        leftIcon: 'md-share',
        clickCB: () => {
            this.onClickShareButton();
        }
    }
];

```

```

    };
}

/**
 * UI calls this when the 'Select...' button is clicked.
 * @returns {void}
 */
public onClickSelectButton(): void {
    console.log('onClickSelectButton()');

    let selectAlert: Alert = this.alertController.create();
    selectAlert.setTitle('Select which, in ' + this.directoryEntry.fullPath);
    selectAlert.addButton({
        text: 'All',
        handler: () => {
            this.selectAllInFolder();
        }
    });
    selectAlert.addButton({
        text: 'None',
        handler: () => {
            this.selectNoneInFolder();
        }
    });

    selectAlert.addButton('Cancel');
    selectAlert.present();
}

/**
 * UI calls this when the 'Go home' button is clicked.
 * @returns {void}
 */
public onClickHomeButton(): void {
    console.log('onClickHomeButton()');
    this.switchFolder('/');
}

/**
 * UI calls this when the 'Go to parent' button is clicked.
 * @returns {void}
 */
public onClickParentButton(): void {
    console.log('onClickParentButton()');
    const pathParts: string[] = this.directoryEntry.fullPath.split('/');
    .filter((str: string) => { return str !== '' });
    const parentPath = '/' +
        pathParts.splice(0, pathParts.length - 1).join('/') +
        '/';
    this.switchFolder(parentPath);
}

/**
 * UI calls this when the 'Add...' button is clicked.
 * @returns {void}
 */
public onClickAddButton(): void {
    console.log('onClickAddButton()');
    let actionSheet: ActionSheet = this.actionSheetController.create({
        title: 'Create new ... in ' + this.directoryEntry.fullPath,
        buttons: [{
            text: 'Folder',
            icon: 'folder',
            handler: () => {
                console.log('Add folder clicked.');
                this.addFolder();
            }
        }
    ]
});
}

```

```

        {
            text: 'URL',
            icon: 'link',
            handler: () => {
                console.log('Add URL clicked.');
```

```

        }
    },
    {
        text: 'Cancel',
        role: 'cancel',
        // icon: 'close',
        handler: () => {
            console.log('Cancel clicked.');
```

```

        (err1: any) => {
            alert('err1: ' + err1);
        }
    ); // FS.readDirectory().subscribe(..
    },
    (err2: any) => {
        alert('err2: ' + err2);
    }
); // FS.getPathEntry(..).subscribe(..
}

private detectChanges(): void {
    console.log('OrganizerPage.detectChanges()');
    setTimeout(
        () => {
            this.changeDetectorRef.detectChanges();
            this.content.resize();
        },
        0);
}

public ionViewWillEnter(): void {
    console.log('OrganizerPage.ionViewWillEnter()');
    this.detectChanges();
}

public ionViewDidEnter(): void {
    console.log('OrganizerPage.ionViewDidEnter()');
    this.detectChanges();
}

/**
 * UI calls this when the new folder button is clicked
 * @returns {void}
 */
public onClickRename(node: TreeNode, item: ItemSliding): void {
    console.log('onClickRename()');
}

/**
 * UI calls this when the new folder button is clicked
 * @returns {void}
 */
public onClickEntry(entry: Entry): void {
    console.log('onClickEntry()');
    const dirPath: string = [
        this.directoryEntry.fullPath,
        '/',
        entry.name,
        '/'
    ].join('');
    this.switchFolder(dirPath);
}

public toggleSelect(entry: Entry): void {
    console.log('toggleSelect()');
    const fullPath: string = entry.fullPath +
        (entry.isDirectory ? '/' : '');
    if (fullPath === '/') {
        alert('fullPath === \'/\');
        debugger;
    }
    if (this.selectedEntries.has(fullPath)) {
        this.selectedEntries.delete(fullPath);
    }
    else {
        this.selectedEntries.add(fullPath);
    }
    this.appState.updateProperty('selectedEntries', this.selectedEntries)
}

```

```

        .then();
        this.detectChanges();
    }

    public isSelected(entry: Entry): boolean {
        // return entry.fullPath in this.selectedEntries;
        return this.selectedEntries.has(entry.fullPath);
    }

    public onRenameEntry(entry: Entry): void {
        console.log('onRenameEntry(' + entry + ')');
    }

    /**
     * UI calls this when the new folder button is clicked
     * @returns {void}
     */
    public addFolder(): void {
        let parentPath: string = this.directoryEntry.fullPath + '/',
            newFolderAlert: Alert = this.alertController.create({
                title: 'Create a new folder in ' + this.directoryEntry.fullPath,
                // message: 'Enter the folder name',
                inputs: [{
                    name: 'folderName',
                    placeholder: 'Enter folder name...'
                }],
                buttons: [
                    {
                        text: 'Cancel',
                        role: 'cancel',
                        handler: () => {
                            console.log('Cancel clicked in new-folder alert');
                        }
                    },
                    {
                        text: 'Done',
                        handler: (data: any) => {
                            let folderName: string = data.folderName;
                            if (!folderName.length) {
                                // this code should never be reached
                                alert('how did we reach this code?');
                                return;
                            }
                            if (folderName[folderName.length-1] !== '/') {
                                // last char isn't a slash, add a slash at the end
                                folderName += '/';
                            }
                            // create the folder via getPathEntry()
                            FS.getPathEntry(
                                this.fileSystem,
                                parentPath + folderName,
                                true
                            ).subscribe(
                                (directoryEntry: DirectoryEntry) => {
                                    // re-read parent
                                    // to load in new info
                                    this.switchFolder(parentPath, false);
                                }
                            );
                        }
                    }
                ]
            });
        newFolderAlert.present();
    }

    /**
     * Select all items in current folder
     * @returns {void}
     */
}

```

```
    */
    private selectAllInFolder(): void {
        this.selectAllOrNoneInFolder(true);
    }

    /**
     * Get rid of selection on all nodes in current folder
     * @returns {void}
     */
    private selectNoneInFolder(): void {
        this.selectAllOrNoneInFolder(false);
    }

    /**
     * Select all or no items in current folder, depending on 'all; argument
     * @param {boolean} if true, select all, if false, select none
     * @returns {void}
     */
    private selectAllOrNoneInFolder(bSelecting: boolean): void {
        for (let i: number = 0; i < this.entries.length; i++) {
            const entry: Entry = this.entries[i],
                  isSelected: boolean = this.isSelected(entry);
            if ((bSelecting && !isSelected) || (!bSelecting && isSelected)) {
                // reverse (toggle) node selection status
                this.toggleSelect(entry);
                // remember that something, at least one, has changed
            }
        }
        this.detectChanges();
    }

    public reorderEntries(indexes: any): void {
        console.log('reorderEntries(' + indexes + ')');
        console.log(typeof(indexes));
        console.dir(indexes);
        let entry: Entry = this.entries[indexes.from];
        this.entries.splice(indexes.from, 1);
        this.entries.splice(indexes.to, 0, entry);
    }
}
```