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import {
  Alert,
  AlertController,
  ActionSheet,
  ActionSheetController,
  Content,
  // ItemSliding,
  ModalController,
  NavController,
  Platform
} from 'ionic-angular';
import {
  ChangeDetectorRef,
  Component,
  ViewChild
} from '@angular/core';
import { AppState } from '../../services/app-state/app-state';
import { ButtonBarButton } from '../../components/button-bar/button-bar';
import { SelectionPage } from '../../pages';
import {
  MoveToPage
  // , TrackPage
} from './';
// import { Keyboard } from '@ionic-native/keyboard';
import { AppFS } from '../../services';

/**
 * @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 extends SelectionPage {
  @ViewChild(Content) public content: Content;
  // UI uses directoryEntry
  public directoryEntry: DirectoryEntry;
  // we remember this just so we can uncheck it when
  // in dialog of delete button
  public unfiledDirectory: 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;

  // appState now handled by selectionpage as private
  // private appState: AppState;

  // UI uses selectedPaths

  // selectedPaths now from SelectionPage
  // public selectedPaths: Set<string>;

  /**
   * @constructor
   * @param {NavController}
   * @param {AlertController}
   * @param {ModalController}
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   * @param {AppState}
   * @param {Platform}
   */
  constructor(
    // keyboard: Keyboard,
    navCtrl: NavController,
    alertController: AlertController,
    actionSheetController: ActionSheetController,
    modalController: ModalController,
    changeDetectorRef: ChangeDetectorRef,
    appState: AppState,
    appFS: AppFS,
    platform: Platform
  ) {
    super(appState, appFS);

    console.log('constructor():OrganizerPage');
    // this.keyboard = keyboard;
    this.changeDetectorRef = changeDetectorRef;
    this.directoryEntry = null;
    this.actionSheetController = actionSheetController;

    appState.get('lastViewedFolderPath').then(
      (path: string) => {
        this.switchFolder(path, false);
        appState.get('selectedPaths').then(
          (selectedPaths: Set<string>) => {
            this.selectedPaths = selectedPaths;
          });
      } // (path: string) => {...
    ); // appState.get('lastViewedFolderPath').then(..

    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',
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    });
    selectAlert.addButton({
      text: 'None',
      handler: () => {
        this.selectAllOrNoneInFolder(false);
      }
    });
  });

  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('/', true);
}

/**
 * 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: string = '/' +
    pathParts.splice(0, pathParts.length - 1).join('/') +
    '/';
  this.switchFolder(parentPath, true);
}

/**
 * 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.');
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    actionSheet.present();
  }

/**
 * UI calls this when the info button is clicked.
 * Shows cumulative info on all selected items.
 * @returns {void}
 */
public onClickInfoButton(): void {
  console.log('onClickInfoButton');
}

/**
 * UI calls this when move button is clicked.
 * Moves selected items into a folder.
 * @returns {void}
 */
public onClickMoveButton(): void {
  console.log('onClickMoveButton');
  // this.modalController.create(MoveToPage).present();
  this.navController.push(MoveToPage);
}

/**
 * UI calls this to determine whether to disable move button.
 * @returns {boolean}
 */
public moveButtonDisabled(): boolean {
  // if the only thing selected is the unfiled folder
  // disable delete and move
  if (this.selectedPaths.size === 1 &&
    this.selectedPaths.has('/Unfiled/')) {
    return true;
  }
  return false;
}

/**
 * @returns {void}
 */
private confirmAndDeleteSelected(): void {
  let nSelectedEntries: number = this.selectedPaths.size,
    itemsStr: string = nSelectedEntries.toString() + ' item' +
      ((nSelectedEntries > 1) ? 's' : ''),
    entries: string[] = Array.from(this.selectedPaths),
    // sortFun: (a: string, b: string) => number =
    // (a: string, b: string) => {
    //   const lenA: number = a.split('/').length,
    //   lenB: number = b.split('/').length;
    //   if (lenA < lenB) {
    //     return -1;
    //   }
    //   else if (lenA === lenB) {
    //     return 0;
    //   }
    //   else {
    //     return 1;
    //   }
    // },
    deleteAlert: Alert = this.alertController.create();

  // entries.sort(sortFun);
  entries.sort();
  console.log(entries);
  deleteAlert.setTitle('Are you sure you want to delete ' +
    itemsStr + '?');
  deleteAlert.addButton('Cancel');
  deleteAlert.addButton({
    text: 'Yes',

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    handler: () => {
      this.appFS.removeEntries(entries).subscribe(() => {
        this.selectedPaths.clear();
        this.appState.set(
          'selectedPaths',
          this.selectedPaths
        ).then(
          () => {
            this.switchFolder(
              this.getFullPath(this.directoryEntry),
              false
            );
          }
        );
      });
    }
  });
});

deleteAlert.present();
}

/**
 * UI calls this when delete button is clicked.
 * @returns {void}
 */
public onClickDeleteButton(): void {
  console.log('onClickDeleteButton');
  if (this.selectedPaths.has('/Unfiled/')) {
    let deleteAlert: Alert = this.alertController.create();

    deleteAlert.setTitle('/Unfiled folder cannot be deleted. But it' +
      '\s selected. Automatically unselect it?');
    deleteAlert.addButton('Cancel');
    deleteAlert.addButton({
      text: 'Yes',
      handler: () => {
        this.selectedPaths.delete('/Unfiled/');
        this.selectedPaths.delete(
          this.getFullPath(this.unfiledDirectory)
        );
        this.confirmAndDeleteSelected();
      }
    });
    deleteAlert.present();
  }
  else {
    this.confirmAndDeleteSelected();
  }
}

/**
 * UI calls this to determine whether disable the delete button
 * @returns {boolean}
 */
public deleteButtonDisabled(): boolean {
  // if the only thing selected is the unfiled folder
  // disable delete and move
  if (this.selectedPaths.size === 1 &&
    this.selectedPaths.has('/Unfiled/')) {
    return true;
  }
  return false;
}

/**
 * UI calls this when social sharing button is clicked
 * @returns {void}
 */
public onClickShareButton(): void {
  console.log('onClickShareButton');

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    }

    /**
     * UI calls this when selected badge on top right is clicked
     * @returns {void}
     */
    public onClickSelectedBadge(): void {
        console.log('onClickSelectedBadge()');
        if (this.selectedPaths.size) {
            // only go to edit selections if at least one is selected
            this.navController.push(SelectionPage);
        }
    }

    /**
     * Switch to a new folder
     * @param {number} key of treenode corresponding to folder to switch to
     * @param {boolean} whether to update app state 'lastFolderViewed' property
     * @returns {void}
     */
    private switchFolder(
        path: string,
        bUpdateAppState: boolean = true
    ): void {
        console.log('OrganizerPage.switchFolder(' + path + ', ' +
            bUpdateAppState + ')');
        this.appFS.getPathEntry(path, false).subscribe(
            (directoryEntry: DirectoryEntry) => {
                this.directoryEntry = directoryEntry;
                if (!directoryEntry) {
                    alert('!directoryEntry!');
                }
                this.appFS.readDirectory(directoryEntry).subscribe(
                    (entries: Entry[]) => {
                        console.log('OrganizerPage.switchFolder() entries: ' +
                            entries);
                        console.log(this.selectedPaths);
                        console.dir(entries);
                        this.entries = entries;
                        this.detectChanges();
                        if (bUpdateAppState) {
                            this.appState.set(
                                'lastViewedFolderPath',
                                path
                            ).then();
                        }
                    },
                    (err1: any) => {
                        alert('err1: ' + err1);
                    }
                ); // this.appFS.readDirectory().subscribe(..
            },
            (err2: any) => {
                alert('err2: ' + err2);
            }
        ); // this.appFS.getPathEntry(..).subscribe(..
    }

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

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    /**
     * 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, true);
    }

    /**
     * UI calls this when the new folder button is clicked
     * @returns {void}
     */
    public addFolder(): void {
        let parentPath: string = this.getFullPath(this.directoryEntry),
            newFolderAlert: Alert = this.alertController.create({
                title: 'Create a new folder in ' + parentPath,
                // 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');
                            // this.keyboard.close();
                        }
                    },
                    {
                        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()
                            this.appFS.getPathEntry(
                                parentPath + folderName,
                                true
                            ).subscribe(
                                (directoryEntry: DirectoryEntry) => {
                                    // re-read parent
                                    // to load in new info
                                    this.switchFolder(parentPath, false);
                                    // this.keyboard.close();
                                },
                                () => {
                                    //
                                }
                            );
                        }
                    }
                ]
            });
        newFolderAlert.present();
        // this.keyboard.show();
    }
}

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}

/**
 * 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(bSelectAll: boolean): void {
  console.log('selectAllOrNoneInFolder(' + bSelectAll + ')');
  let bChanged: boolean = false;
  this.entries.forEach((entry: Entry) => {
    const fullPath: string = this.getFullPath(entry),
      isSelected: boolean = this.isSelected(entry);
    if (bSelectAll && !isSelected) {
      this.selectedPaths.add(fullPath);
      bChanged = true;
    }
    else if (!bSelectAll && isSelected) {
      this.selectedPaths.delete(fullPath);
      bChanged = true;
    }
  });
  if (bChanged) {
    this.appState.set(
      'selectedPaths',
      this.selectedPaths
    ).then();
  }
}
```