Place Keeper

ES6 & HTML5

General

Our app consists of three HTML pages:

- **index.html** – the App's home page with navigation links to the two other pages.
- **user-prefs.html** – displays a `<form>` for collecting user preferences. These preferences determine how various parts of the app are displayed.
- **map.html** – displays a list of places saved by the user and a map.

Guidelines

Remember to use the <section, nav, main, aside, header, footer> semantic elements

Use ES6 throughout your code: destructering, arrow functions, default parameter values, let, const, etc.

Use the MVC pattern to shape your app, you should have the following services:

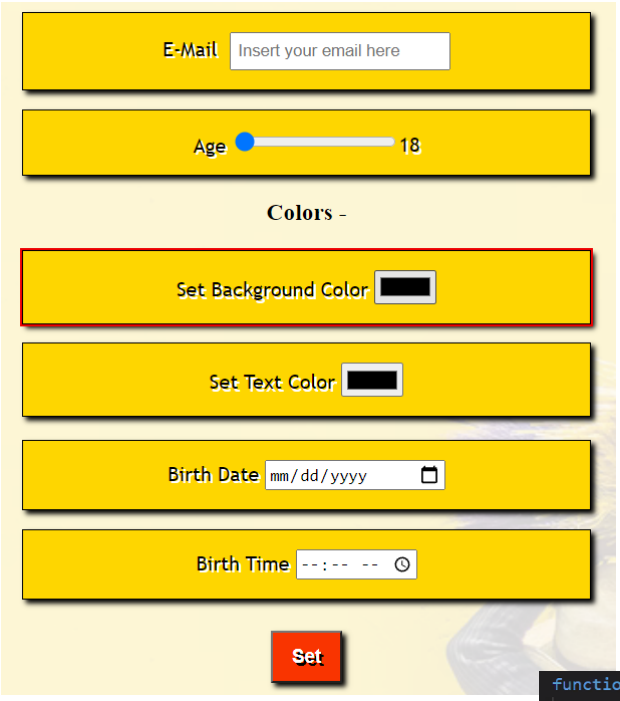
- `utilService` – *general utility functions.*
- `userService` – *manages saving and reading the user's preferences*
- `placeService` – *manages the place entity CRUDL*

index.html

This is a simple home page with some graphics and a welcome message, something like: *Find your way back to your best places*

Add navigation links to the other (two) pages: user-settings.html and places.html

user-settings.html



Here we will use a <form> to get th
localStorage.

```
function onSubmit(ev) {
  ev.preventDefault()
  // console.log('ev.target:', ev.target)
  console.dir(ev.target)
  console.dir(ev.target.email)
  console.log('ev.target.email:', ev.target.email)

  const { email, age, bgc, txtColor, birthDate, birthTime } = ev.target

  const user = {
    email: email.value,
    age: age.value,
    txtColor: txtColor.value,
    bgColor: bgc.value,
    birthDate: birthDate.value,
    birthTime: birthTime.value,
  }

  console.log('user:', user)
  // saveUserData(user)

  // window.location = 'index.html'
}
```

The **user** object will finally look like

```
const user = {
    email : '',
    txtColor : '',
    bgColor : '',
    Age : '',
    birthDate: '',
    birthTime: ''
}
```

* Master tip: it's best to **start simple** with the first two properties – `email` and `txtColor`

The application should use the colors provided by the user and show the homepage (index.html) accordingly.

Step 1 - Colors

Use HTML5 color <input> to let the user set its background and text color of the pages.

TIP: use: *userService.save(userData)*

Step 2 – Date and Time

Use HTML5 *date* and *time* <input>s to let the user set his exact birth time, In the homepage render the user's birthtime

Step 3 – Wrap in a form

Put those inputs in a <form>, and on submit, use a service to keep them in a localstorage object: userData

TIP: you will need event.preventDefault in the onsubmit event handler.

Step 4 – Add some more inputs

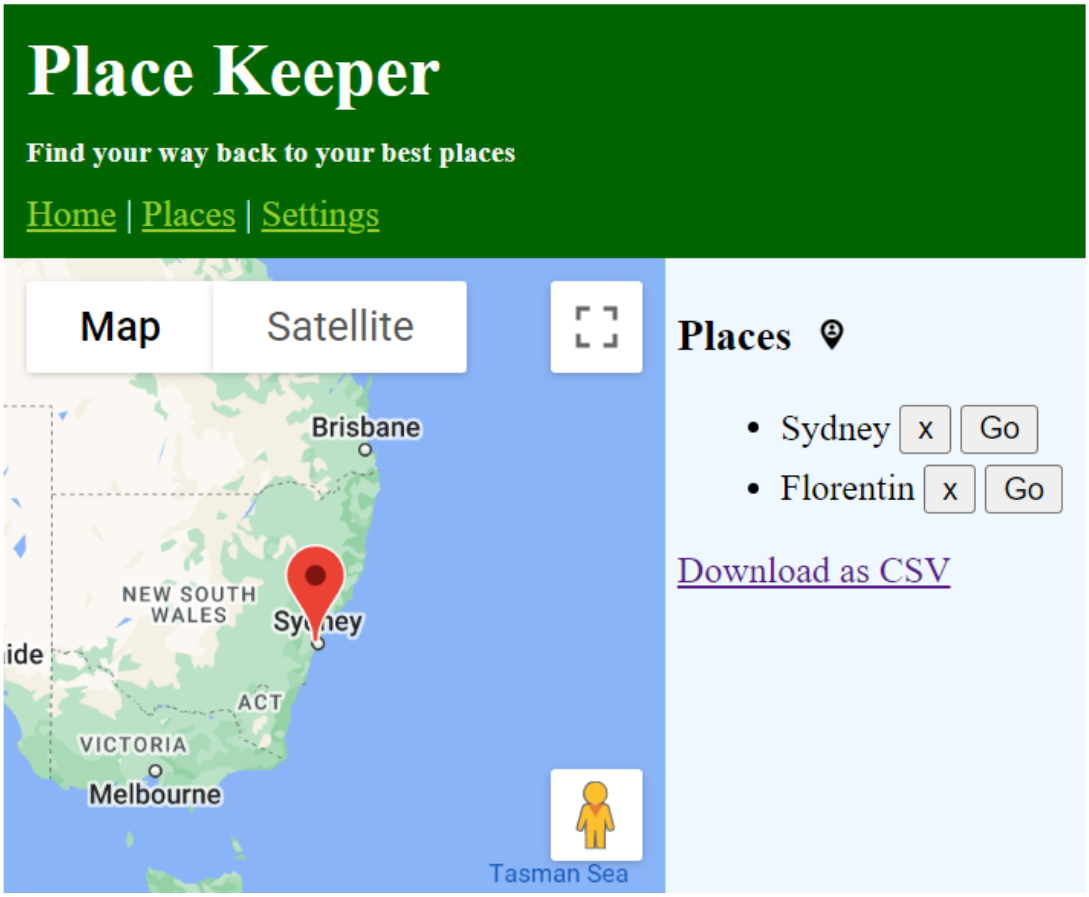
1. Add a *required* email <input>
2. Add a *range* <input> to let the user select his age: 18->120

places.html

Here we will show a **map** and allow the user to manage his places.

Tips:

- Use the 'create Google Api' doc to create an API key and secure it.
- This exercise involves self learning and reading documentation for a new API



{coding academy

Step 1 – places list

Show the list and allow the user to remove a place.
Use a placeService that manages the place entity, a place object looks like that:

```
{id: '1p2', lat: 32.1416, lng: 34.831213, name: 'Pukis house'}
```

- Start from rendering 2 places on the page
- Setup your place.controller
  - `function onInit() {}`
  - `function renderPlaces() {}`
  - `function onRemovePlace(placeId) {}`
- Setup the place.service
  - `function getPlaces() {}`
  - `function removePlace(placeId) {}`
  - `function addPlace(name, lat, lng, zoom) {}`
  - `function getPlaceById(placeId) {}`
  - `function _createPlace(name, lat, lng, zoom) {}`
  - `function _createPlaces() {}`
- Render the list and check that your functions work

Step 2 – Show a map

1. Generate your Google Maps API key
   (see directions in a separate doc)
2. Show a map centered at **Eilat**
   - Copy the code needed for showing a simple map
   - you can use an online tool (such as this) for getting the lat-lng for Eilat
3. When a user clicks on the map, the user is prompted to enter a name and a new place is saved to storage, here is some code to put you in the right direction:

```
gMap.addListener('click', ev => {
        const name = prompt('Place name?', 'Place 1')
        const lat = ev.latLng.lat()
        const lng = ev.latLng.lng()
        addPlace(name, lat, lng, gMap.getZoom())
        renderPlaces()
})
```

4. When a user clicks a button to go to a place, the map is moved and zoomed on the selected place

```
function onPanToPlace(placeId) {
    const place = getPlaceById(placeId)
    gMap.setCenter({ lat: place.lat, lng: place.lng})
    gMap.setZoom(place.zoom)
}
```

Step 3 – User location

when user clicks the  button, get his current location and center the map accordingly.

Step 4 – Markers

When the map is ready, and also when places are added / removed, we call the renderMarkers function:

```
function renderMarkers() {
    const places = getPlaces()
    // remove previous markers
    gMarkers.forEach(marker => marker.setMap(null))
    // every place is creating a marker
    gMarkers = places.map(place => {
        return new google.maps.Marker({
            position: place,
            map: gMap,
            title: place.name
        })
    })
}
```

Step 5 - Finalize the app

1. Add navigation links to all pages.
2. Let the user download a CSV of the places

Bonuses

1. Replace the prompt for new place name with a nice modal
2. In the user-settings.html
    - add another input: gender, that is based on a datalist with the options: Male, Female, Other
    - Add custom validation: validate the provided user age matches the provided birth year
3. Create more pages and try out some HTML5 features we have covered