Exercise 1

```
1)
if (index >= _suggestions.length) {
   _suggestions.addAll(generateWordPairs().take(10));
}
```

If we were to remove the lines, we would receive a RangeError, as the next code line tries to build more tiles by accessing the index in _suggestions, which is limited to 20 now.

2)

We can use ListView.separated() to achieve that, however it assumes that the list is infinite, with a fixed item count, therefor the function ListViewer.build is preferred for our infinite list.

3)

The setState is due to the fact that we are changing the state of tile (adding/removing from favorites, thus coloring the heart icon red/white), and we need to update the UI, so setState triggers a call to the build() method for the State object, which results in an update to the UI.

Exercise 2

1)

I used the Push() method of Navigotr.of(context) as follows:

```
void _loginScreen() {
  Navigator.of(context).push(
    MaterialPageRoute<void>(builder: (BuildContext context) {
```

Another way to achieve that would be to implement navigation right from the main screen, calling Push() right from the login icon's onPressed in the app bar from the build widget of the main screen.

2)

To show the snackbar, I used

ScaffoldFeatureController<SnackBar, SnackBarClosedReason>
showSnackBar(SnackBar snackbar)

And it requires Scaffold widget (or specifically in our case, the "Build" widget, to provide child relation to the Scaffold, if I understood correctly).