

First Mandatory Assignment

Tingle App version 4: Mobile App Development - ITU Copenhagen
by Asger Balle Pedersen

Tingle App Version 4

This 4th version of the Tingle App has both portrait and landscape mode available and uses both fragments simultaneously at the first screen in landscape mode. The version also introduces two new functions: a delete button to remove items from the list and a search button to shorten the look-up time when the list of items grows.

Indholdsfortegnelse

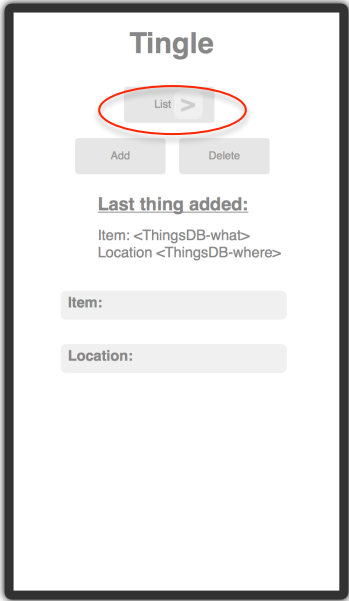
| | |
|-------------------------------------|---|
| DESIGN, MOCK-UP AND WIREFRAME | 2 |
| TESTING..... | 4 |
| VERSION CONTROL BY GITHUB..... | 4 |
| FURTHER DEVELOPMENT | 4 |

Design, Mock-up and Wireframe

The general layout for all activities is the centered headline Tingle in the top.

The main page of the Tingle App is shown in Picture 1 & 2. In portrait mode only the fragment for adding or deleting an items from the list is presented, but in landscape mode the screen is divided into the fragments of adding and deleting, and a search- and show-list. The “**List >**” button provides access to the second screen.

Table 1 provides an overview of the first screen of the Activity and Fragment in use along with the xml files for the layout.



Picture 1 Portrait

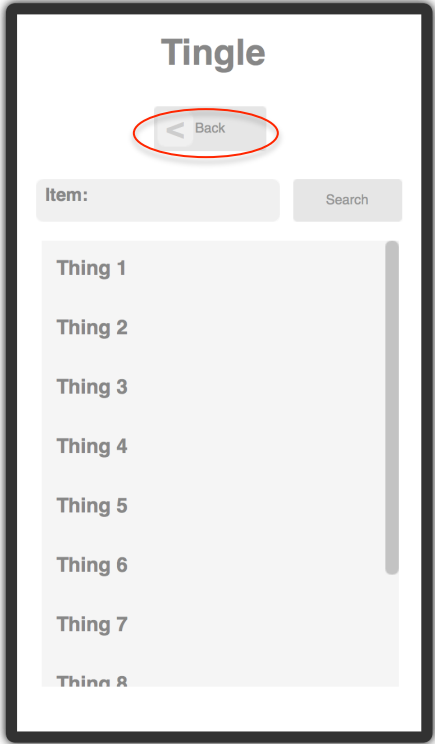


Picture 2 Landscape

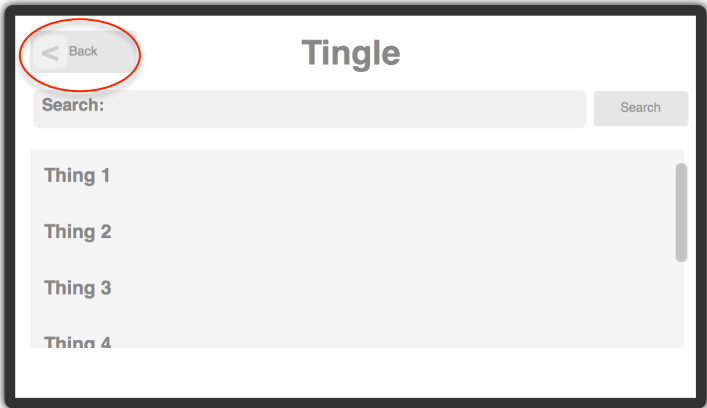
| | Portrait: | Landscape: |
|-------------|---------------------|--|
| Activity | TingleActivity.java | TingleActivity.java |
| Fragment | TingleFragment.java | TingleFragment.java myListFragment.java |
| Main-Layout | activity_tingle.xml | activity_tingle.xml (land) |
| Sub-Layout | fragment_tingle.xml | fragment_tingle.xml (land) fragment_list.xml (land) |

Table 1

The main page of the Tingle App is shown in Picture 3 & 4. In both the portrait and landscape mode the list fragment is shown with all its functions available. The “< Back” button provides access back to the first screen. Table 2 provides an overview of the first screen of the Activity and Fragment in use along with the xml files for the layout.



Picture 2 Portrait



Picture 4 Landscape

| | | |
|-------------|---------------------|--------------------------|
| | Portrait: | Landscape: |
| Activity | ListActivity.java | ListActivity.java |
| Fragment | myListFragment.java | myListFragment.java |
| Main-Layout | activity_list.xml | activity_list.xml (land) |
| Sub-Layout | fragment_list.xml | fragment_list.xml (land) |

Table 2

Testing

During development of the Tingle App, functional testing (black-box with test cases) has been done from the beginning to test functionality to a suitable standard user level. A use case example is the fixed input from the initialized list with only 1 match to the search word: Bag.

Version Control by Github

The screenshot shows the GitHub interface for the repository 'holyxhellx / MobileAppDevelopment'. At the top, there's a search bar and navigation links for 'Pull requests', 'Issues', and 'Gist'. Below the repository name, there are buttons for 'Unwatch', 'Star', and 'Fork'. The main navigation bar includes 'Code', 'Issues', 'Pull requests', 'Wiki', 'Pulse', 'Graphs', and 'Settings'. The repository description is 'Mobile App Develoement -Pervasive Computing, ITU Copenhagen'. Below this, statistics show '3 commits', '1 branch', '0 releases', and '1 contributor'. A bar at the top of the commit list shows 'Branch: master', a 'New pull request' button, and buttons for 'New file', 'Upload files', 'Find file', 'HTTPS', the repository URL, and 'Download ZIP'. The commit list shows three commits: 'Tingle Version 3' (latest, 16 minutes ago), 'Tingle Version 2' (18 minutes ago), and 'Tingle Version 1' (22 minutes ago). A message in the center states 'File uploading is now available' with a link to 'Learn more'.

| Commit | Message | Time |
|------------|------------------|--------------------------------------|
| holyxhellx | Tingle Version 3 | Latest commit cdb6bbd 16 minutes ago |
| | Tingle Version 2 | 18 minutes ago |
| | Tingle Version 1 | 22 minutes ago |

Further Development

The Tingle App still needs outer edge testing in form of unit testing, and further development on the second page should in the future include more info about the items on the list when in landscape mode, for example the location: where. The list should also display a delete- and detail-button when clicked instead of just a toast.