

How to create a new Streamlit app checklist

1. Naming Conventions

Identification	Header
ae1982	Aircraft Accidents in the US since 1982
pd1982	Profiling Data for the US since 1982

2. Coding

Adherence to the following recommendations will ensure consistent usability across all of IO-Aero's Streamlit applications:

- Use the sidebar for task and filter related controls
- Position the task-related controls in the sidebar at the top and the global filter elements at the bottom
- Make the task-related control elements visible only after the associated task has been selected

```
choice_data_profile = st.sidebar.checkbox(
    help="Pandas profiling of the dataset.",
    label="**`Show data profile`**",
    value=False,
)

if choice_data_profile:
    choice_data_profile_type = st.sidebar.radio(
        help="explorative: thorough but also slow - minimal: minimal but faster.",
        index=1,
        label="Data profile type",
        options=(
            [
                "explorative",
                "minimal",
            ]
        ),
    )
    choice_data_profile_file = st.sidebar.checkbox(
        help="Export the Pandas profile into a file.",
        label="Export profile to file",
        value=False,
    )
```

- Separate the individual tasks and the filter elements with separator line

```
st.sidebar.markdown("""---""")
```

3. Documentation

see file directory [docs](#)

3.1 how_to_update_avstats_on_aws.md

```
## 1. Docker images

Currently, the following Streamlit applications are supported:
```

Application	Description
ae1982	Aircraft Accidents in the US since 1982
pd1982	Profiling Data for the US since 1982

3.2 index.md

```
Currently, it includes the following applications:
```

- ae1982 - Aircraft Accidents in the US since 1982
- pd1982 - Profiling Data for the US since 1982

3.3 Operation.md

```
TODO
```

4. Parameterization

4.1 docker-compose.yml

```
# -----
# ae1982 - Aircraft Accidents in the US since 1982.
# -----
app_ae1982:
  container_name: ae1982
  depends_on:
    - db
  image: ioaero/ae1982:latest
  ports:
    - "${IO_AERO_STREAMLIT_SERVER_PORT_AE1982}:${IO_AERO_STREAMLIT_SERVER_PORT}"
  restart: always

# -----
# pd1982 - Profiling Data for the US since 1982.
# -----
```

```

app_pd1982:
  container_name: pd1982
  depends_on:
    - db
  image: ioaero/pd1982:latest
  ports:
    - "${IO_AERO_STREAMLIT_SERVER_PORT_PD1982}:${IO_AERO_STREAMLIT_SERVER_PORT}"
  restart: always

```

5. Scripts

5.1 run_io_avstats

cmd:

```

if [ "%IO_AERO_TASK%" ] EQU [ "r_s_a" ] (
  if [ "%2" ] EQU [ "" ] (
    echo =====
    echo ae1982 - Aircraft Accidents in the US since 1982
    echo pd1982 - Profiling Data for the US since 1982
    echo -----
    set /P IO_AERO_APPLICATION="Enter the Streamlit application name "
  ) else (
    set IO_AERO_APPLICATION=%2
  )
)

```

bash:

```

if [ "${IO_AERO_TASK}" = "r_s_a" ]; then
  if [ -z "$2" ]; then
    echo "=====
    echo "ae1982 - Aircraft Accidents in the US since 1982"
    echo "pd1982 - Profiling Data for the US since 1982"
    echo "-----"
    # shellcheck disable=SC2162
    read -p "Enter the Streamlit application name " IO_AERO_APPLICATION
    export IO_AERO_APPLICATION=${IO_AERO_APPLICATION}
  else
    export IO_AERO_APPLICATION=$2
  fi
fi

```

5.2 See file directory **scripts**

5.2.1 scripts/run_create_image

cmd:

```

if ["%1"] EQU [""] (
    echo =====
    echo ae1982 - Aircraft Accidents in the US since 1982
    echo pd1982 - Profiling Data for the US since 1982
    echo -----
    set /P APPLICATION="Enter the desired application name [default:
%APPLICATION_DEFAULT%] "

    if ["!APPLICATION!"] EQU [""] (
        set APPLICATION=%APPLICATION_DEFAULT%
    )
) else (
    set APPLICATION=%1
)

```

bash:

```

if [ -z "$1" ]; then
    echo "=====
    echo "ae1982 - Aircraft Accidents in the US since 1982"
    echo "pd1982 - Profiling Data for the US since 1982"
    echo "-----"
    read -p "Enter the desired application name [default: ${APPLICATION_DEFAULT}]
" APPLICATION
    export APPLICATION=${APPLICATION}

    if [ -z "${APPLICATION}" ]; then
        export APPLICATION=${APPLICATION_DEFAULT}
    fi
else
    export APPLICATION=$1
fi

```

5.2.2 scripts/run_docker_compose

cmd:

```

set IO_AERO_STREAMLIT_SERVER_PORT_X...X=99999
...
echo STREAMLIT_SRRVER_PORT_X...X : %IO_AERO_STREAMLIT_SERVER_PORT_X...X%

```

bash:

```

export IO_AERO_STREAMLIT_SERVER_PORT_X...X=99999
...
echo "STREAMLIT_SRRVER_PORT_X...X : ${IO_AERO_STREAMLIT_SERVER_PORT_X...X}"

```

