To launch application at your computer, you need to make several steps:

1. Clone repository [sergeypil/news-portal (github.com)](https://github.com/sergeypil/news-portal) or download code from there. The project consists of two parts: frontend and backend.

2. Launch frontend angular application. To launch angular application you need Node.js with npm and Angular CLI installed on your computer.

Installing instructions [How To Install Angular CLI (knowledgehut.com)](https://www.knowledgehut.com/blog/web-development/install-angular-cli)

After installing these tools you need:

- Open command line and change directory to news-portal-angular directory of downloaded repository.

- Run command npm install to install all modules in folder node\_modules

- Run command ng serve to launch project

- Open working project in browser at localhost:4200

3. Launch backend java project. To launch java project, you need installed maven and tomcat.

There are two ways, manual deploying or automatic deploying by IDE.

- Change your datasource settings in HibernateConfig file.

- Open command line and change directory to the root directory of downloaded repository.

- Run command mvn install. There folder target must been created.

- Open target directory and copy file news-portal.war to webapps directory located in tomcat home directory

- Open browser and check if application is launch correctly by opening URL <http://localhost:8080/news_portal_war/newapi/articles>

- If everything ok, enjoy interacting with app at localhost:4200