HDip. In Computer Science (Online)
Module: ICT Skills 2

Assignment/Project.

Due date:August 17th

Assignment

- **Deliverables:**
  - **GitHub repository,**
    - **README very important – must use template provided.**
  - **Demonstration.**

- **Crade bands:**
  - **Good – 40-60%.**
  - **Excellent – 60-80%.**
  - **Outstanding – 80+%.**

Grade band: **Good (40-60%) – Theme: Foundation app.**

- **UI features:**
  - **User interaction, e.g. filtering, menu selection.**
  - **Dynamic behavior.**
  - **Navigation - ~3 views/pages**

- **React features:**
  - **Mix of statefull and stateless components.**
  - **Unidirectional dataflow and Data-down-action up.**
  - **Routing – 1 parameterized URL.**
  - **Core hooks (useState/useEffect)**
  - **Some Storybook implementation**
- **Web API:**
  - **2 endpoints**

Grade band: **Excellent (60-80%) – Theme: Feature-rich app.**

- **UI features:**
  - **User Authentication (Custom).**
  - **Mix of public and protected pages/features.**
  - **Navigation - ~5 views/pages; Site Header/Footer.**
  - **Data hyperlinking.**
  - **Web form (submitted to StubAPI is okay)**
  - **Styling.**

- **React features:**
  - **React context.**
  - **useReducer hook, Custom hooks.**
  - **Some composition pattern usage.**
  - **Routing – Nested routes; Programmatic navigation.**
  - **Substantial Storybook implementation.**
- **Web API:**
  - **3-4 endpoints.**

Grade band: **Outstanding (80+%) – Theme: Independent learning.**

- **Possible areas include:**
  - **Advanced Web Form processing (useForms hook).**
  - **Styled Components.**
  - **Other Hooks, e.g. useCallback**
  - **Memoization.**
  - **Cloud deployment, e.g. Zeit Now.**
  - **3rd party authentication (e.g. Firebase, AWS Cognito),**
  - **Automated Testing, e.g. Cypress.**
  - **Other.**

Some other TMDB endpoints

- https://api.themoviedb.org/3/movie/${movie_id}/creditsre
  - Details of the cast and crew for a movie.
  - E.g. https://api.themoviedb.org/3/movie/496243/credits?api_key=your key
- https://api.themoviedb.org/3/person/${person_id}/
  - Information on a person (i.e. cast or crew member).
  -
  -
- https://api.themoviedb.org/3/movie/${movie_id}/recommendations
  - A list of recommended movies for a movie.
- https://api.themoviedb.org/3/movie/${movie_id}/similar –
  - A list of similar movies to a movie, based on keyword and genre matching.
- https://api.themoviedb.org/3//movie/upcoming
  - A list of upcoming movies.
- See the docs: https://developers.themoviedb.org/3/getting-started/introduction