

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.**
- **Grade 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}/credits](https://api.themoviedb.org/3/movie/${movie_id}/credits) returns
 - Details of the cast and crew for a movie.
 - E.g. https://api.themoviedb.org/3/movie/496243/credits?api_key=your_key
- [https://api.themoviedb.org/3/person/\\${person_id}/](https://api.themoviedb.org/3/person/${person_id}/)
 - Information on a person (i.e. cast or crew member).
 - E.g. https://api.themoviedb.org/3/person/8784?api_key=your_API_key
- [https://api.themoviedb.org/3/movie/\\${movie_id}/recommendations](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](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>