ELECTIVE 3: FULLSTACK WEB DEVELOPMENT
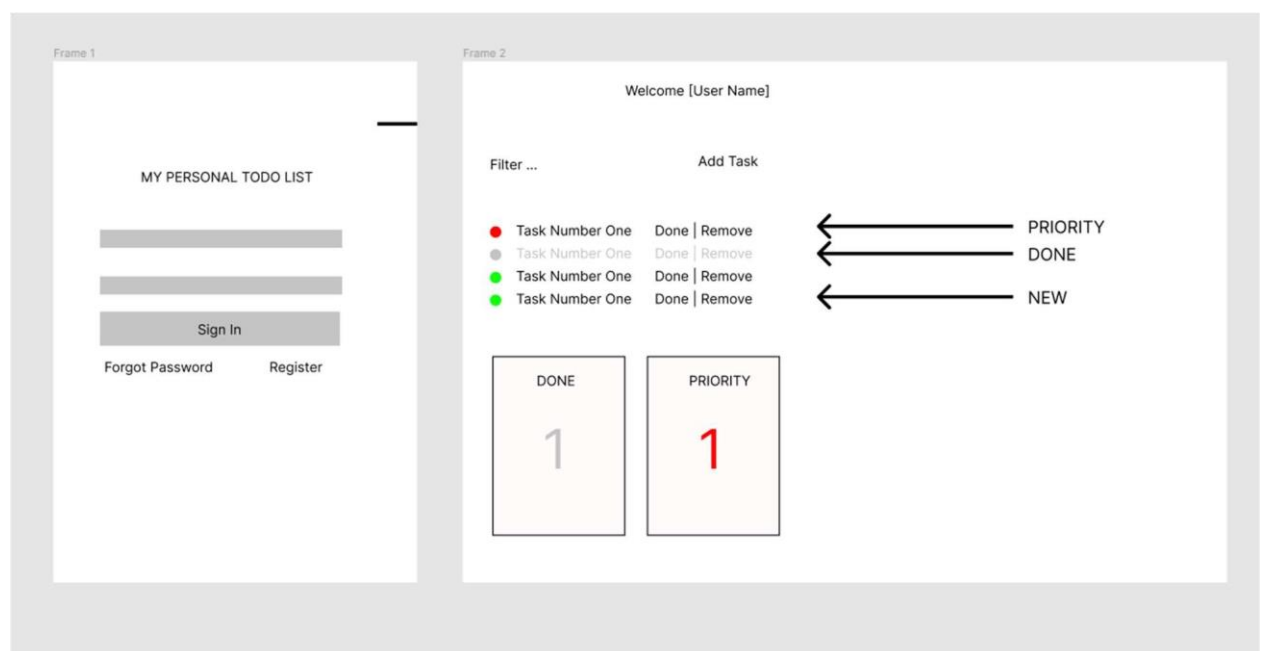
MIDTERM EXAMINATION
2nd Semester, Academic Year 2021-2022

Please follow the directions for each section. Note that in each section you will have some amount of choice in the questions you'll be answering. The exam is based on a 100-point scale. Partial credit will be given for answers that are done partially well.

Programming (75 points).

1. Requirements:
   i. Create a GitHub repository under the name format: MEX_FirstName_LastName
   ii. See the below diagram for the web application layout.

   iii. It must have a login page (Hardcoded password and username is allowed).
   iv. It should display the name of the username in the second page.
   v. It should only accept username "admin".
   vi. It should only accept the password "admin1234".
   vii. It should be able to to add a task with prioritization (UI is not included so you guys can design what you want here)
   viii. A mini dashboard below w/c displays number of DONE and PRIORITIES (regardless of if DONE or NOT)
   ix. A color coding is good to differentiate tasks (RED = priority, GREEN = normal, GRAY = done)
   x. It can be filter by using the color codes above. You will have to make your own implementation of this.

xi. Register and Forgot Password should take user to an ERROR 404 page.

Essay (25 points):

1. What is the difference of state and props.

The distinction between state and props in React JS is that the state holds data about the component, while props can pass data from a parent component to its child component. The main difference between states and props is that a state can be changed, whereas props are immutable. As a result, the container component should specify the state that may be updated and altered, while the child components should only use props to convey data from the state.

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LOA-OAA-TOS-028
**10-02-2020	REV. 00**

CODE	ELEC323
TITLE	ELECTIVE 3: FULLSTACK DEVELOPMENT

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COLLEGE OF COMPUTER STUDIES
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EXAM	**PRELIMINARY EXAMINATION**
TERM/AY	**2ND SEMESTER, ACADEMIC YEAR 2020-2021**

Topic #	Objectives	Remember	Understand	Apply	Analyze	Evaluate	Create	Total # of Items/points
1	o Familiarization with React JS	2	2	2	1	1	2	**10**
	Total # of items/Points	2	2	2	1	1	**2**	10

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