Internet Application Design and Implementation
2016 - 2017

Example Test

2 November 2016

Consider an Internet-based application that implements a clip-like application to manage courses and the students enrolled in them.

When the application starts it shows a list with all the students. On this list it must be possible to click to edit a particular student or to see more details about each student.

After successfully editing a student its details are shown.

In the page with the students details it is again possible to click to edit the details or to go and see the complete list of students again. In this page it is also possible to click to send a message to the student.

Question 1   Define the IFML pages, components, and navigation and data flows for the given scenario. Don't forget to include the data that must be sent with the flows.

Question 2   Identify all the necessary *react* components you would need to implement the given scenario/IFML. In particular, for each react component identify the:

1. name,

2. state (some component may not have state),

3. correspondence with the IFML specification, and

4. for each component rendered using other components, define the *render* method just with the necessary components and corresponding parameters.

Question 3   Define the necessary routing system for the given application.

Question 4   Sketch the implementation of the react component that allows to send a message to a student.