**User Requirements**

**Specification**

***For***

***topCIMA***

Version 1.0

Ellipsis (Private) Limited

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**Document Approval**

**Ellipsis (Private) Limited** has reviewed this document and agree that the contents of the document are accurate. Any changes to this documentmust be communicated in writing, approved and signed off by bothparties.

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| Name: | Name: |
| Client: | **Ellipsis (Private) Limited** |

# 1. Introduction

## 1.1 Purpose

The purpose of this User Requirements Specification (URS) document is to provide a detailed description of the functionalities that will be offered in the topCIMA Web application. This document will cover each of the application’s intended features, as well as offer a preliminary glimpse of the technologies that will be used to develop the application and also its mainUser Interfaces (UI).

## 1.2 Intended Audience and Reading Suggestions

This document is intended for all individuals participating in and/or supervising the development of the topCIMA Web Application. For ease of browsing, this document has been broken down into five main sections.

***Part1 (Introduction)*** – This section will provide the readers a brief overview of the website.

***Part2 (Overall Description)*** - This section provide an overview of each aspect of the web application and also as a whole.

***Part 3(System Features)*** – This section is for readers who wish to explore the features of the web application in more details, which expands on the overview laid out in the previous sections.

***Part 4(External Interface Requirements)*** - This section offers further technical details, including information on the hardware and software platform on which the application will run.

***Part5(Other Non-Functional Requirements)*** – Readers who are interested in non-technical aspects of the product, should read this sections, which covers areas such as performance, safety, security, and various other attributes that will be important to users.

## 1.3 Project Scope

This software system will be an Exam Engine for topCIMA. This system will be designed to support and interact with various client-side features, which would otherwise have to be performed physically. The concept behind this application is inspired by the idea of taking examinations over the internet without the need of conducting the exam manually. This would make exams very easy to be designed by the officials in charge of constructing them, and also would ease the candidates of the exam. More specifically, topCIMA exam engine will be generating online exams for Students, where they can login to the application and do take the exam. They can also view sample exams before making any payments for the actual exams. In this way, they can experience the system beforehand. The application will provide a summary of the examination once the candidate finishes a particular examination.

# 2. Overall Description

## 2.1 Product Perspective

Examinations are held worldwide. There are many examinations that are targeted for a well large audience. These exams need to be held in a medium where a large audience can have access to the examination without much hassle. The best place to conduct this exam is through the internet. Currently, only few of the available exam systems provide innovative features in their web pages.The project is on developing an exam engine, which will benefit theCandidates of exams in numerous ways. The online exam featurewillgives the Students a chance take examinations online.The web application will also include concepts of augmented reality thusproviding several services which will be benefited by the users.

## 2.2 Product Features

The following list offers a brief outline and description of the main featuresand functionalities of the topCIMA web application.

### 2.2.1 Core Features

|  |  |  |
| --- | --- | --- |
| **#** | **Feature** | **Goals** |
| 1 | Login | Allow user to access his account  information before taking an examination. |
| 2 | Registration | Allow Student to register an account with all of the Students’ personal information |
| 3 | Save password | Save user the trouble of having to  enter his email address and password every time he wants to login. |
| 4 | Password Recovery | In case the user misplaces his  password, this feature allows him to  recovery his account with a new  password provided to his registered  email address. |
| 5 | Site Map | Allow all Student’s to view the origin  of the exams. |
| 6 | User profile | Dedicated page for all the registered  Students to allow them to visually see theinformation of their accounts.**(Hope we can show exams he has taken, marks of those exams, events uploaded by admin where admin should be able to upload events to be shown for different categories of students, and future planned exams where admin must be able to plan exams for students or students themselves would be able to plan)**  **When, you say Categories, do you mean the Exam Titles, or the levels?, Because we already have functionality to filter students based on the exams they take, or by their levels.**  **We have added the stories for your new requirements.Refer to new story 3.11.20**  **User shouldn’t be able to change their email address**  **This can be done without any issue** |
| 7 | Available Exams | The Student has access to a list of different exams that are offered, and he has the ability to view them in detail and choose a particular exam. |
| 8 | Take Exam | The Student will be presented with the randomly generated questions for the particular examination selected. **(We will need both functions one is randomly selected,second standard papers available (Ex: numbers from 1 to 10) for each subject and they can do those papers as well)**  The sample question papers’ question’s are already in a way so that they can be handpicked. The question’s of the online exam are randomly generated.  **We have added the stories for your new requirements.Refer to new story 3.11.2** |
| 9 | View Sample Exam | The student has access to sample exams, so that the student can experience the system before making any payments for the actual exam. |
| 10 | Exam Summary | A summary containing details about the students performance will be shown to the student once the exam is completed by the Student. **(Detailed report should be available as optional only).**  **Yes, We can provide an option for the student to select whether to see the results in detail, or not.** |
| 11 | Payment Gateways | Identify available payment methods,  validate the payments and process  Payments. |
| 12 | Contact Us | Allow users to contact the site owner,  Regarding any query or complains. |
| 13 | Scientific Calculator | A scientific calculator feature will allow the Student to perform any calculations if required for any questions. **(Admin will be able to decide when setting the paper whether calculator is allowed or not)**  **We will have a set of radio buttons to select if a calculator is allowed, when the admin creates the exam.**  **We have added the stories for your new requirements.Refer to new story 3.11.1** |
| 14 | Notepad | Using the Notepad feature, the Student can take down any rough noted needed while taking the examination |
| 15 | Link to YouTube channel | Every user is redirected to the official  YouTube channel of this site, so that  they can subscribe to it. |
| 16 | Link to Facebook page | Every user is redirected to the official  Facebook page of this site, so that they can share their experience with others.  **Allow users to share on their timeline as well.**  **We will implement this.** |
| 17 | Link to Twitter page | Every user is redirected to the official  Twitter page of this site, so that they  can share their experience with others.  **Allow users to tweet and share it among their followers.**  **We will implement this.** |

**\*\*Iintegrate a Google analytics (free) account to the indexand any other appropriate areas of the system. Do not integrate in the sections where a user needs to log in to access.**

**Activity log has not been included.**

**We have added the stories for your new requirements. Please refer to these new stories.**

**We have added the stories for your new requirements.Refer to new stories 3.11.21 and 3.11.22**

**2.3 Operating Environment**

The application is not resource or graphics-intensive, so there are no practicalhardware constraints.

**2.5 Design and Implementation Constraints**

topCIMA web application is meant to be quick and responsive, even whendealing with largenumber of transactions, so each feature must be designedand implemented with efficiency in mind.

# 3. System Features and User Stories

## 3.1 Application Management

### 3.1.1 User Login

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_001 | Original US  Ref |  |
| Type | New | | |
| As a : Registered Student  I want to : Login to the Website  So that I can : Access my personal information. | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\Login.png** | | | |
| **Success:**   * Registered student will open the home page directly by   typing the URL.**(I am sure we can give the link to this from our website as well)**  **Yes, you can.**   * Registered student will be presented with the homepage. * Registered student will click on the “Login” link on the top   right hand corner.   * Registered student will be presented with the login page. * Registered student will enter his email address and   password.   * Registered student will press “Login” | | | |
| **Failures:**   * “Invalid user name or password” * “Error in connecting to the server please retry”   **Error Message:**   * “The username or password you entered is incorrect”. * “Error in connecting to the server please retry”   **(Admin should get a message for wrong pass word entering, may be after 2 attempts and will not the system get blocked for the user if there are wrong password entering for more than agreed number of times)**  **We can provide a backend interface for this feature if necessary. The constraint to be applied is up to you.**  **No Suspend. Only a warning message, with a captcha.** | | | |
| **Notes:** “Login” appears only when not logged in.  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.1.2 Forgot Password

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_002 | Original US  Ref |  |
| Type | New | | |
| As a : Registered student  I want to : Get a new password  So that I can : Login to the application and proceed with other functions. | | | |
| **User Interface:**  C:\Users\melakaa\Desktop\Top Cima\Forgot Password.png | | | |
| **Success:**   * Registered student will open the home page directly by   typing the URL.   * Registered student will be presented with the homepage. * Registered student will click on the “Login” link on the top   right hand corner.   * Registered student will be presented with the login page. * Registered student will click “Forgot Password” link to   receive new password.   * Registered student will be presented with a password   recovery view.   * Registered student will enter his email address, which he   entered at his registration, into the email field.   * Registered student will press “Submit” button. * Registered student will receive an email containing a   new password. | | | |
| **Failures:**   * Entering an unregistered email address. * Network failure.   **Error Message:**   * “The email address you entered is invalid”. * “Cannot connect to the internet”. | | | |
| **Notes:**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.1.3 Student Registration

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_003 | Original US  Ref |  |
| Type | New | | |
| As a : Un-registered Student Willing to Pay and take exams  I want to : Register an account  So that I can : Login to the application and continue on to register and take exams | | | |
| **User Interface:**  C:\Users\melakaa\Desktop\Top Cima\Registration.png  **We will need them to enter many other details about the exams, as there can be many different exams, different sittings like March and June, can may be little more details to understand what products that they are interested in. Then they should havedifferent products to pay right )?**  **Verify email address; don’t allow them to login without verifying the address. Do not allow users to register using temporary email address services.**  **In this step, the Student will just be registered into the system. In this stage, we are interested in only his personal information. Also, this interface is for the second type of registration, which is for students only interested in registering to take the exam. So, at this stage only personal information is entered. When he choses the exam he want to do, we can provide interfaces to let him give information regarding the sitting, and can proceed to do the payments, before doing the exam.**  **With regard to “sitting”, I do not quite follow, what you mean. In the current design of the exam engine, Students can register for exams by paying and then they are directly shown the exam for them to do. Are you talking about a functionality which allows Students to schedule exams for a later Date?**  **We have a backend logic for the verification of e-mail.**  **We have added the stories for your new requirements.Refer to new story 3.11.5 & 3.11.24** | | | |
| **Success:**   * Unregistered student will open the home page directly by   typing the URL.   * Unregistered student will be presented with the   homepage.   * Unregistered student will click on the “Sign Up” link on the   top right hand corner.   * Unregistered student will be presented with the   registration page.   * Unregistered student will fill the required fields. * Unregistered student will press “Register” button. * Unregistered student will receive a notification requesting   to check the student registered mailing account. | | | |
| **Failures:**   * Entering a wrong email address. * Email addresses don’t match. * Network failure.   **Error Message:**   * “The email address you entered is invalid”. * “Email address and the confirmation email address do not   match”.   * “Cannot connect to the internet”. | | | |
| **Notes:** “Sign Up” appears only when not logged in.  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.1.4 Save Password

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_004 | Original US  Ref |  |
| Type | New | | |
| As a : Registered student  I want to : Save password in the application for the ease of future logins  So that I can : Directly login to the application and proceed with other functions. | | | |
| **User Interface:**  C:\Users\melakaa\Desktop\Top Cima\Save Password.png | | | |
| **Success:**   * Registered student will open the home page directly by   typing the URL.   * Registered student will be presented with the homepage. * Registered student will click on the “Login” link on the top   right hand corner.   * Registered student will be presented with the login page. * Registered student will check remember me checkbox for   the ease of future logins.   * Registered student will enter his email address and   password.   * Registered student will press “Login” | | | |
| **Failures:**   * Entering a wrong email address. * Entering wrong Password * Network failure.   **Error Message:**   * “The email address you entered is invalid”. * “Incorrect username or password”. * “Cannot connect to the internet”. | | | |
| **Notes:**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

## 3.2 Application Help

### 3.2.1 Site Map

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_005 | Original US  Ref |  |
| Type | New | | |
| As a : Student  I want to : Check the location of operation of the site  So that I can : Get an idea about the structure of the Exams | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\Site Map.png**  **This will be a diagram right ?**  **This is actually list of links to all the areas of the web application. Would you prefer to have a diagram instead?** | | | |
| **Success:**   * Student will open the home page directly by typing the   URL.   * Student will click on the “Site Map” link at the bottom of   the page.   * Student will be presented with map view of the location of   the site’s exams. | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:** “Site Map” contains all the links to each page in the web site according to their hierarchy.  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.2.2 Contact Us

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_006 | Original US  Ref |  |
| Type | New | | |
| As a : Student  I want to : Contact the Company  So that I can : Give Suggestions | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\Contact Us.png**  **We will need phone numbers of the person as well right ? But I am sure we can add most these later as well, right ?so there is nothing to worry now right ?**  **Who do you mean when you refer as “person”. Currently, we are storing the contact information of Students including their phone number.**  **This form is their for any person visiting the application to send any comments/suggestions, or any other messages to the site owners.This is actually a static page.**  **We have added the stories for your new requirements.Refer to new story 3.11.3** | | | |
| **Success:**   * Student will open the home page directly by typing the   URL.   * Student will click on the “Contact Us” link at the bottom of   the page.   * Student will be presented with the contact us page. * Student will enter his email address, telephone number,   address and the message he would like to compose.   * Student will enter the send button.   **Hope they will get a nice message confirming we will contact them back** | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

## 3.3 Profile Management

### 3.3.1 View Profile

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_007 | Original US  Ref |  |
| Type | New | | |
| As a : Registered Student  I want to : View my details on this site  So that I can : Be sure the personal information is up to date | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\View profile.png** | | | |
| **Success:**   * Registered Student will open the home page directly by   typing the URL.   * Registered Student will click on the link with his/her name   at the top right hand corner of the page.   * Registered Student will be presented with the “My Profile”   page where he/she can access “Account Settings” | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.3.2 View Account Settings

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_008 | Original US  Ref |  |
| Type | New | | |
| As a : Registered Student  I want to : View the settings of my account  So that I can : Be sure the settings of my account are up to  Date | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\View profile.png** | | | |
| **Success:**   * Registered Student will open the home page directly by   typing the URL.   * Registered Student will click on the link with his/her name   at the top right hand corner of the page.   * Registered Student will be presented with the “My Profile”   page where he/she can access “Account Settings”   * Registered Student will be presented with the “Account Setting”   page which contains name, telephone, email and address of  the student. | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.3.3 Edit Account Settings

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_009 | Original US  Ref |  |
| Type | New | | |
| As a : Registered student  I want to : View the settings of my account  So that I can : Update the settings of my account | | | |
| **User Interface:**  C:\Users\melakaa\Desktop\Top Cima\Edit Profile.png | | | |
| **Success:**   * Registered Student will open the home page directly by   typing the URL.   * Registered Student will click on the link with his/her name   at the top right hand corner of the page.   * Registered Student will be presented with the “My Profile”   page.   * Registered Student will click on the “Account Settings” link. * Registered Student will be presented with the “Account   Setting” page.   * Registered Student will click on the “Edit” button. * Registered Student will update his name, telephone, email,   address and password.   * Registered Student will click on the “Save” button. | | | |
| **Failures:**   * Entering a wrong email address. * Email addresses don’t match. * Network failure.   **Error Message:**   * “The email address you entered is invalid”. * “Email address and the confirmation email address do not   match”.   * “Cannot connect to the internet”. | | | |
| **Notes:**User shouldn’t be able to change their email address  **We have added the stories for your new requirements.Refer to new story 3.11.7**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

## 3.4 Exam Management

### 3.4.1 View Available Exams

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_010 | Original US  Ref |  |
| Type | New | | |
| As a : Registered student  I want to : View the Available Exams of all the courses  So that I can : Choose an exam and either take it, or view sample exams | | | |
| **User Interface:**  C:\Users\melakaa\Desktop\Top Cima\view available exam.png  **This needs to be clearer. As we need to ensure all exams are visible and levels and subjects shonw separately. And if one registred as a CIMA students then only CIMA exams needs to be shown. Right ?**  **In the current design of the web application, we do not record information about the particular course or level of a student. Once Registered, he has the flexibility to choose, and do any exam he wishes.**  **If needed, we can change the design of the system, so that we can get the course and the level of the Student when they are registered to the system, and then show only the particular exams in his course, and his level, on this page.**  **What do you think is better?**  **We have added the stories for your new requirements. Refer to new story 3.11.16** | | | |
| **Success:**   * Registered Student will open the home page directly by   typing the URL.   * Registered Student will click on the “Exams” link on the menu. * Registered Student will be shown the available courses as tabs. * Registered Student will see the available exams for each level under each tab. | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:Allow students to try the sample exams without registration**  **This is why we need a page such as this. So that even the Student who have not registered can view all the exams that is being offered. In the current design, we do not ask for credentials when taking a sample exam. We only ask for the credentials when the Student Clicks on “Take Exam”. You can see this interface on the next story.**  **We have added the stories for your new requirements.Refer to new story 3.11.17**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.4.2 View Each Available Exams

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_011 | Original US  Ref |  |
| Type | New | | |
| As a : Registered student  I want to : View each available exam  So that I can : Read about each exam in detail, and choose either to take the exam, or view a sample exam | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\single exam view.png**  **What’s the difference with the above**  **This is a detail view of each exam. In the previous interface, minimum information was displayed. In this interface, you can provide an in depth detail about each exam. And it is through this interface, that the Student will choose either to view a sample paper, or to take the actual exam.** | | | |
| **Success:**   * Registered Student will open the home page directly by   typing the URL.   * Registered Student will click on the “Exams” link on the menu. * Registered Student will be shown the available courses as tabs. * Registered Student will see the available exams for each level under each tab. * Registered Student will choose a particular exam on a particular level and click on its image * Registered Student will be directed to the page showing the single view of each exam * Registered Student will see an image of the exam along with the exam title, exam description, exam price and exam time. | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.4.3 Take Exam

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_012 | Original US  Ref |  |
| Type | New | | |
| As a : Registered student  I want to :be able to choose, and take an exam  So that I can : View the questions in the exam, and answer them | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\take exam.png** | | | |
| **Success:**   * Registered Student will open the home page directly bytyping the URL. * Registered Student will click on the “Exams” link on the menu. * Registered Student will be shown the available courses as tabs. * Registered Student will see the available exams for each level under each tab. * Registered Student will choose a particular exam on a particular level and click on its image * Registered Student will be directed to the page showing the single view of each exam * Registered Student will see an image of the exam along with the exam title, exam description, exam price and exam time. * Registered student will be presented with a “Take Exam” button. * Registered Student will click on the “Take Exam” button to start the exam.   **(When you say take exams we will need to have two diofferent options available, one random questions and second one on preset papers, and how can we manage new students who pays and come and then our own students who get few papers as the part of the course. And when someone pay how can we allow him to do a paper at any future time with an expiry date. Because some will pay for 5 papers and they may do papers within a period of 6 months or so. We need to show what he gets based on the password, may be if 3 papers are left fro him we need to show the balance three papers, and in mocst cases these will be pre-set papers and not random papers**  **It is not very clear to us how you are generating the online papers. In the current design what we do is, we have an interface for the admin to create exams. There he will NOT hand pick the question. He will set in in a way by selecting the percentage of questions from each subject area to be included. Then he will create the exam. Also we have functionality for the admin to create questions, and allocate them to subject areas.So when a Student takes this test. He will be getting a paper with randomly generated questions according to a set format/standard. I think we need to discuss regarding his in detail.**  **With regard to the future exam, currently, we do not have a design for the functionality for scheduling exams. We can do this by having an interface where he can select a particular exam, and then schedule it by paying. Then, in his profile, he will be shown the exams that he has been registered for. This feature has to be added to the design.**  **As discussed, we will keep the option when creating the question papers, to hold the type when they are added.**  **We have added the stories for your new requirements. Refer to new story 3.11.2** | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.4.4 Questions with single answers(Before this there should be a screen to see when the paper is selected, with the details such as this paper is 111 and then time allowed, nujmebr of questions and other standard instructions to take papers

You can have these information in the interface that we have provided to show the detail view of each exam. The instructions can be put on a different page.

**We have added the stories for your new requirements.Refer to new story 3.11.9**

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_013 | Original US  Ref |  |
| Type | New | | |
| As a : Registered student  I want to :be shown questions with multiple answer options  So that I can : select one correct answer option | | | |
| **User Interface: (See whether timer location is right as it has to be for the entire paper and internally calculated for each question)**  **The position of the timer will not change during the entire duration of the exam. The placement of the timer on the interface is up to you. We can place it in any portion of the header or footer, as per your requirement.**  **A separate timer will run internally to find out how much time a student spends on each question while he is active on that question.**  **C:\Users\melakaa\Desktop\Top Cima\single answer question.png** | | | |
| **Success:**   * Registered Student will open the home page directly bytyping the URL. * Registered Student will click on the “Exams” link on the menu. * Registered Student will be shown the available courses as tabs. * Registered Student will see the available exams for each level under each tab. * Registered Student will choose a particular exam on a particular level and click on its image * Registered Student will be directed to the page showing the single view of each exam * Registered Student will see an image of the exam along with the exam title, exam description, exam price and exam time. * Registered Student will be presented with a “Take Exam” button. * Registered Student will click on the “Take Exam” button to start the exam. * If the randomly generated question is a single answer question, the registered Student will be shown the question along with multiple answers, where only one is correct. * Registered Student will select the correct answer by clicking on the radio button next to it | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 

### 3.4.5 Multiple Answer Questions

|  |
| --- |
| US Ref |
| Type |
| As a : Registered student  I want to :be shown questions with multiple answer options  So that I can : select multiple correct answer options | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\multiple answer question.png** | |
| **Success:**   * Registered Student will open the home page directly bytyping the URL. * Registered Student will click on the “Exams” link on the menu. * Registered Student will be shown the available courses as tabs. * Registered Student will see the available exams for each level under each tab. * Registered Student will choose a particular exam on a particular level and click on its image * Registered Student will be directed to the page showing the single view of each exam * Registered Student will see an image of the exam along with the exam title, exam description, exam price and exam time. * Registered Student will be presented with a “Take Exam” button. * Registered Student will click on the “Take Exam” button to start the exam. * If the randomly generated question is a multiple answer question, the registered Student will be shown the question along with multiple answers, where there are many correct answers. * Registered Student will select the correct answers by clicking on the check box next to each correct answer | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | |
| **Notes:**  **Alternatives:** | |
| **Acceptance Criteria:** | |

### 3.4.6 Short Written Answer Questions

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_015 | Original US  Ref |  |
| Type | New | | |
| As a : Registered student  I want to :beshown questions with short written answers  So that I can : write the answer for the question in the space provided | | | |
| **User Interface:**  **(Student will need to have the function to go to any selected question number from the screen by way of selecting a question from the bull down menu of question numbers)**  **We have added the stories for your new requirements.Refer to new story 3.11.10**  **C:\Users\melakaa\Desktop\Top Cima\short written answer questions.png** | | | |
| **Success:**   * Registered Student will open the home page directly bytyping the URL. * Registered Student will click on the “Exams” link on the menu. * Registered Student will be shown the available courses as tabs. * Registered Student will see the available exams for each level under each tab. * Registered Student will choose a particular exam on a particular level and click on its image * Registered Student will be directed to the page showing the single view of each exam * Registered Student will see an image of the exam along with the exam title, exam description, exam price and exam time. * Registered Student will be presented with a “Take Exam” button. * Registered Student will click on the “Take Exam” button to start the exam. * If the randomly generated question is a short written answer question, the registered Student will be shown the question along with a text box for him to enter the correct answer for the question. * Registered Student will enter the correct answer in the text box provided. | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.4.7 Drag and Drop Answers Type A Questions

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_016 | Original US  Ref |  |
| Type | New | | |
| As a : Registered student  I want to :beshown questions with drag and drop answers  So that I can : match the correct answer to each question | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\drag and drop questions.png** | | | |
| **Success:**   * Registered Student will open the home page directly bytyping the URL. * Registered Student will click on the “Exams” link on the menu. * Registered Student will be shown the available courses as tabs. * Registered Student will see the available exams for each level under each tab. * Registered Student will choose a particular exam on a particular level and click on its image * Registered Student will be directed to the page showing the single view of each exam * Registered Student will see an image of the exam along with the exam title, exam description, exam price and exam time. * Registered Student will be presented with a “Take Exam” button. * Registered Student will click on the “Take Exam” button to start the exam. * If the randomly generated question is a drag and drop answer question, the registered Student will be shown the question along several question options which needs to be filled with a answer option. * The answer options are shown in a separate column next to the dropping areas. * Registered Student will drag an answer option and drop it into the dropping area next to the correct question option. | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.4.8Drag and Drop Answers Type B Questions

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_017 | Original US  Ref |  |
| Type | New | | |
| As a : Registered student  I want to :beshown questions with drag and drop answers  So that I can : match the correct answer to each question | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\drap and drop type 2.png** | | | |
| **Success:**   * Registered Student will open the home page directly bytyping the URL. * Registered Student will click on the “Exams” link on the menu. * Registered Student will be shown the available courses as tabs. * Registered Student will see the available exams for each level under each tab. * Registered Student will choose a particular exam on a particular level and click on its image * Registered Student will be directed to the page showing the single view of each exam * Registered Student will see an image of the exam along with the exam title, exam description, exam price and exam time. * Registered Student will be presented with a “Take Exam” button. * Registered Student will click on the “Take Exam” button to start the exam. * If the randomly generated question is a drag and drop answer question, the registered Student will be shown the question along several question options which needs to be filled with an answer option. * The answer options are below in a separate area below the table. * Registered Student will drag an answer option and drop it into the dropping area in the correct position in the table. | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.4.9 Multiple Choice Answer Questions

|  |
| --- |
| US Ref |
| Type |
| As a : Registered student  I want to :beshown questions with multiple choice answer  So that I can : select the correct answer, from multiple answers, for each question option | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\multiple choice answers.png** | |
| **Success:**   * Registered Student will open the home page directly bytyping the URL. * Registered Student will click on the “Exams” link on the menu. * Registered Student will be shown the available courses as tabs. * Registered Student will see the available exams for each level under each tab. * Registered Student will choose a particular exam on a particular level and click on its image * Registered Student will be directed to the page showing the single view of each exam * Registered Student will see an image of the exam along with the exam title, exam description, exam price and exam time. * Registered Student will be presented with a “Take Exam” button. * Registered Student will click on the “Take Exam” button to start the exam. * If the randomly generated question is a multiple choice question, Registered Student will be shown a series of question options with a drop down many containing several answer options where only one option is correct. * Registered Student will select the correct option from the drop down for each of the question options | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | |
| **Notes:**  **Alternatives:** | |
| **Acceptance Criteria:** | |

### 3.4.10 Move to Next Question in the Exam

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_019 | Original US  Ref |  |
| Type | New | | |
| As a : Registered student  I want to : move on to the next question in the exam  So that I can : continue on with the other questions in the exam | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\Next Question.png** | | | |
| **Success:**   * Registered Student will open the home page directly bytyping the URL. * Registered Student will click on the “Exams” link on the menu. * Registered Student will be shown the available courses as tabs. * Registered Student will see the available exams for each level under each tab. * Registered Student will choose a particular exam on a particular level and click on its image * Registered Student will be directed to the page showing the single view of each exam * Registered Student will see an image of the exam along with the exam title, exam description, exam price and exam time. * Registered Student will be presented with a “Take Exam” button. * Registered Student will click on the “Take Exam” button to start the exam. * Once the registered Student completes the answer for the question, he will click on the next button on the bottom. * Registered Student will be shown the next question of the exam. | | | |
| **Failures:**   * Network failure. * If the student does not complete the answer and does not mark the question   **Error Message:**   * “Cannot connect to the internet”. * “You must complete the answer before proceeding to the next question, or you should mark the question for further reference”. | | | |
| **Notes:**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.4.11Move to Previous Question in the Exam

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_020 | Original US  Ref |  |
| Type | New | | |
| As a : Registered student  I want to : move on to the previous question in the exam  So that I can : preview the answer(s) for the previous questions | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\Previous Question.png** | | | |
| **Success:**   * Registered Student will open the home page directly bytyping the URL. * Registered Student will click on the “Exams” link on the menu. * Registered Student will be shown the available courses as tabs. * Registered Student will see the available exams for each level under each tab. * Registered Student will choose a particular exam on a particular level and click on its image * Registered Student will be directed to the page showing the single view of each exam * Registered Student will see an image of the exam along with the exam title, exam description, exam price and exam time. * Registered Student will be presented with a “Take Exam” button. * Registered Student will click on the “Take Exam” button to start the exam. * If the Registered Student is not on the first question of the exam, he will click on the previous button on the bottom. * Registered Student will be shown the previous question. | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

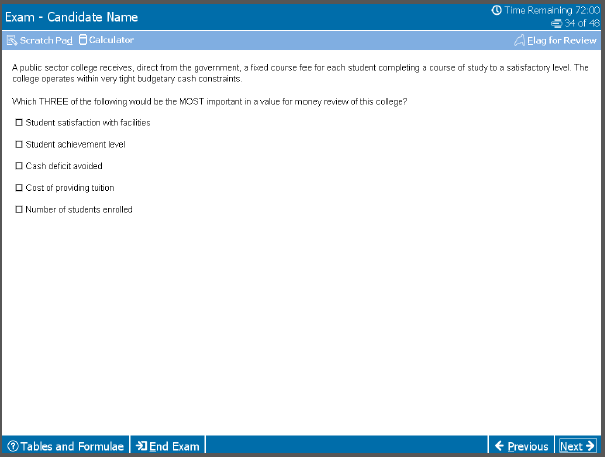
### 3.4.12 Timer

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_021 | Original US  Ref |  |
| Type | New | | |
| As a : Registered student  I want to : be shown a timer  So that I can : preview the time that is left for the Student to complete the exam | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\timer.png** | | | |
| **Success:**   * Registered Student will open the home page directly bytyping the URL. * Registered Student will click on the “Exams” link on the menu. * Registered Student will be shown the available courses as tabs. * Registered Student will see the available exams for each level under each tab. * Registered Student will choose a particular exam on a particular level and click on its image * Registered Student will be directed to the page showing the single view of each exam * Registered Student will see an image of the exam along with the exam title, exam description, exam price and exam time. * Registered Student will be presented with a “Take Exam” button. * Registered Student will click on the “Take Exam” button to start the exam. * The countdown timer will start of at this point * Registered Student will be presented with a series of questions * Registered Student will be shown a timer on the top left**right**corner of the screen. Yes. * The timer will display the time that is left for the Student to complete the exam. | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

**Display xx of xx (current question number out of the total)**

**Yes. This can be done.**

**We have added the stories for your new requirements.Refer to new story 3.11.11 & 3.11.26**



**Provide a link to Tables and Formulae (a static page where Tables (Net present value, Cumulative net present values and Formulae will be given to the students). Open it in a new window.**

**Yes. This can be done.**

**We have added the stories for your new requirements. Please refer to these new stories.**

### 

### 3.4.13 Change previously attempted questions answer(s)

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_022 | Original US  Ref |  |
| Type | New | | |
| As a : Registered student  I want to : change the answer to previously attempted questions  So that I can : correct any previously made mistakes | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\change answer.png** | | | |
| **Success:**   * Registered Student will open the home page directly bytyping the URL. * Registered Student will click on the “Exams” link on the menu. * Registered Student will be shown the available courses as tabs. * Registered Student will see the available exams for each level under each tab. * Registered Student will choose a particular exam on a particular level and click on its image * Registered Student will be directed to the page showing the single view of each exam * Registered Student will see an image of the exam along with the exam title, exam description, exam price and exam time. * Registered Student will be presented with a “Take Exam” button. * Registered Student will click on the “Take Exam” button to start the exam. * If the Registered Student is not on the first question of the exam, he will click on the previous button on the bottom. * Registered Student will be shown the previous question. * Registered Student will make any changes in the answer by selecting the radio buttons, or check boxes, or drop downs, or drag and drops, depending on the type of question. * Registered user will click on the next button to move to the current question, and continue on with the exam. | | | |
| **Failures:**   * Network failure. * If the student does not complete the answer and does not mark the question.   **Error Message:**   * “Cannot connect to the internet”. * “You must complete the answer before proceeding to the next question, or you should mark the question for further reference”. | | | |
| **Notes:**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.4.14 View Exam Summary

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_023 | Original US  Ref |  |
| Type | New | | |
| As a : Registered student  I want to : be shown the summary of the exam  So that I can : view the score for the exam, along with the number of correct answers and other details | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\past exam summary.png**  **Here we should have each section how many questions were there, how many right answrrs ad how many wrong. What else are trying t give ? We should have option of generating the full list of questions and right answer as well**  **We can show the total number of sections. With regard to each section. By section, are you referring to the subject area, because we have shown the detailed views for each subject areas. In the current design, only the admin is able to see the detailed results. We can make it in a way that the student can also see these detailed views. Which do you think is better?** | | | |
| **Success:**   * Registered Student will open the home page directly bytyping the URL. * Registered Student will click on the “Exams” link on the menu. * Registered Student will be shown the available courses as tabs. * Registered Student will see the available exams for each level under each tab. * Registered Student will choose a particular exam on a particular level and click on its image * Registered Student will be directed to the page showing the single view of each exam * Registered Student will see an image of the exam along with the exam title, exam description, exam price and exam time. * Registered Student will be presented with a “Take Exam” button. * Registered Student will click on the “Take Exam” button to start the exam. * Registered Student finishes the exam by clicking on the “End Exam” button on the bottom left corner. * Registered Student is shown the summary of the exam. The score of the exam, the number of correct and incorrect answers, and the summary are shown to the Student. | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.4.15 End Exam

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_024 | Original US  Ref |  |
| Type | New | | |
| As a : Registered student  I want to : end the current exam  So that I can : view the results of the exam, and continue using other features of the application | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\end exam.png**  **I think button like end exams needs to be just outside question as they wont change for each question**  **In this manner, the candidate can end the exam even without completing all the questions. Like a withdrawal. We can take this off if necessary.**  **We can arrange the interface, so that the button will appear on the last question of the exam, or any other place that you wish.**  **Display a notification to get the confirmation, display the number of marked questions (if any) in it. Give the options “End exam” “view marked questions” “cancel” in the notification**  **This can be done.** | | | |
| **Success:**   * Registered Student will open the home page directly bytyping the URL. * Registered Student will click on the “Exams” link on the menu. * Registered Student will be shown the available courses as tabs. * Registered Student will see the available exams for each level under each tab. * Registered Student will choose a particular exam on a particular level and click on its image * Registered Student will be directed to the page showing the single view of each exam * Registered Student will see an image of the exam along with the exam title, exam description, exam price and exam time. * Registered Student will be presented with a “Take Exam” button. * Registered Student will click on the “Take Exam” button to start the exam. * Registered Student finishes the exam by clicking on the “End Exam” button on the bottom left corner. | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

## 3.5 Exam Help

### 3.5.1 Mark Questions for further reference

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_025 | Original US  Ref |  |
| Type | New | | |
| As a : Registered student  I want to : mark questions  So that I can : refer to these questions later on for further clarification of the correct answer | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\mark question.png**  **Student must be able to take list of all marked questions one by one as well. Can they see all unanswered questions as well**  **He can mark a question by selecting the checkbox, and at any point, he can view all the marked question by clicking on the link below. Currently, he cannot see the unanswered questions, we can show this.**  **We have added the stories for your new requirements.Refer to new story 3.11.28** | | | |
| **Success:**   * Registered Student will open the home page directly bytyping the URL. * Registered Student will click on the “Exams” link on the menu. * Registered Student will be shown the available courses as tabs. * Registered Student will see the available exams for each level under each tab. * Registered Student will choose a particular exam on a particular level and click on its image * Registered Student will be directed to the page showing the single view of each exam * Registered Student will see an image of the exam along with the exam title, exam description, exam price and exam time. * Registered Student will be presented with a “Take Exam” button. * Registered Student will click on the “Take Exam” button to start the exam. * Registered Student will be shown the questions. * Registered Student Will click on the “Mark Question” check box below the answer options. | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.5.2 View Marked Questions

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_026 | Original US  Ref |  |
| Type | New | | |
| As a : Registered student  I want to : view marked questions  So that I can : can refer to those questions again, and pay attention to those questions | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\view marked questions.png** | | | |
| **Success:**   * Registered Student will open the home page directly bytyping the URL. * Registered Student will click on the “Exams” link on the menu. * Registered Student will be shown the available courses as tabs. * Registered Student will see the available exams for each level under each tab. * Registered Student will choose a particular exam on a particular level and click on its image * Registered Student will be directed to the page showing the single view of each exam * Registered Student will see an image of the exam along with the exam title, exam description, exam price and exam time. * Registered Student will be presented with a “Take Exam” button. * Registered Student will click on the “Take Exam” button to start the exam. * Registered Student will be shown the questions. * Registered Student will click on the “view marked questions” link on the bottom next to the “End Exam” button. * Registered Student will be shown a list of the question numbers of all the marked questions. | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.5.3 Go back to a marked question

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_027 | Original US  Ref |  |
| Type | New | | |
| As a : Registered student  I want to : go back to marked questions  So that I can : go back to the marked question to do any changes | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\view marked questions.png** | | | |
| **Success:**   * Registered Student will open the home page directly bytyping the URL. * Registered Student will click on the “Exams” link on the menu. * Registered Student will be shown the available courses as tabs. * Registered Student will see the available exams for each level under each tab. * Registered Student will choose a particular exam on a particular level and click on its image * Registered Student will be directed to the page showing the single view of each exam * Registered Student will see an image of the exam along with the exam title, exam description, exam price and exam time. * Registered Student will be presented with a “Take Exam” button. * Registered Student will click on the “Take Exam” button to start the exam. * Registered Student will be shown the questions. * Registered Student will click on the “view marked questions” link on the bottom next to the “End Exam” button. * Registered Student will be shown a list of the question numbers of all the marked questions. * Registered Student Will click on the question number. * Registered Student will be shown the question. | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.5.4 Scientific Calculator

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_028 | Original US  Ref |  |
| Type | New | | |
| As a : Registered student  I want to : have access to a scientific calculator  So that I can : perform any calculations that is required to be done when answering certain questions. | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\scientific calculator.png**  **Where the calculator would be displayed ? They need to see the question as well and at the same time the calculator as well**  **The calculator will be shown on a new frame/window on top of the frame/window with the question, so he can still see the question. He can even move the calculator around.** | | | |
| **Success:**   * Registered Student will open the home page directly bytyping the URL. * Registered Student will click on the “Exams” link on the menu. * Registered Student will be shown the available courses as tabs. * Registered Student will see the available exams for each level under each tab. * Registered Student will choose a particular exam on a particular level and click on its image * Registered Student will be directed to the page showing the single view of each exam * Registered Student will see an image of the exam along with the exam title, exam description, exam price and exam time. * Registered Student will be presented with a “Take Exam” button. * Registered Student will click on the “Take Exam” button to start the exam. * Registered Student will click on the “Calculator” button on the top left. * The scientific calculator will be shown to the Registered Student. | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.5.5 Notepad

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_029 | Original US  Ref |  |
| Type | New | | |
| As a : Registered student  I want to : have access to a notepad  So that I can: type in any rough work that needs to be done while doing the exam | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\notepad.png**  **Would all functions in word be available ?**  **I suggest that you keep the functionalities as optimal as possible since this will be generally a web window like the calculator. The** Scratch Pad **will resemble the “Notepad” application program on Windows.**  **Please use the name “Scratch Pad”. it is the term used by CIMA.** | | | |
| **Success:**   * Registered Student will open the home page directly bytyping the URL. * Registered Student will click on the “Exams” link on the menu. * Registered Student will be shown the available courses as tabs. * Registered Student will see the available exams for each level under each tab. * Registered Student will choose a particular exam on a particular level and click on its image * Registered Student will be directed to the page showing the single view of each exam * Registered Student will see an image of the exam along with the exam title, exam description, exam price and exam time. * Registered Student will be presented with a “Take Exam” button. * Registered Student will click on the “Take Exam” button to start the exam. * Registered Student will click on the “Notepad” button on the top left. * The Notepad will be shown to the Registered Student. | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.5.6 View Sample Exam

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_030 | Original US  Ref |  |
| Type | New | | |
| As a : Registered student  I want to : view sample exam  So that I can: have the opportunity to experience the system before making any payments | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\Sample exam.png**  **I think its better all samples exam papers at one place as this will be referred by a student only ones so no need fro them to see this each time when they try to do a paper. By keeping them at once place may be we can have a little advertisement there as well.**  **Alrite. We will provide a separate page to display all the sample exams.**  **We have added the stories for your new requirements. Please refer to these new stories.** | | | |
| **Success:**   * Registered Student will open the home page directly bytyping the URL. * Registered Student will click on the “Exams” link on the menu. * Registered Student will be shown the available courses as tabs. * Registered Student will see the available exams for each level under each tab. * Registered Student will choose a particular exam on a particular level and click on its image * Registered Student will be directed to the page showing the single view of each exam * Registered Student will see an image of the exam along with the exam title, exam description, exam price and exam time. * Registered Student will be presented with a “View Sample Exam” button. * Registered Student will click on the “View Sample Exam” Button, to view the sample exam.**Student should be able to attempt it and the system should mark and return the results.**   This functionality is available in the current design. | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

## 3.6 Student Management (Admin)

### 3.6.1 View Registered Students

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_031 | Original US  Ref |  |
| Type | New | | |
| As a :Admin with read/write access to the system  I want to : view the registered students  So that I can: view their details, and change them if necessary | | | |
| **User Interface:**  C:\Users\melakaa\Desktop\Top Cima\admin View Students.png  **This details will not be good enough as we need to see what exams and registred when, status and all that a nd then filtering facility to see filter whatever admin needs**  **This page will only show minimum details of the students. This is simply a listing of all the registered students. You can decide which information you want to display here. We suggest that you keep information that can be used to identify the students uniquely.**  **We have another interface which will show the Students information in detail. Here, all the students details will be shown.** | | | |
| **Success:**   * Admin will open the admin panel directly bytyping the URL. * Admin will click enter the login credentials in the form that appears, and click on the “Login Button” * Admin will click on the “Students” tab on the menu * Admin will click on the “View Students” Link * Admin will be shown the details of all the Students | | | |
| **Failures:**   * If the admin enters an incorrect username or password. * Network failure.   **Error Message:**   * “The Password or Username entered is incorrect”. * “Cannot connect to the internet”. | | | |
| **Notes:**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.6.2 Create new Student

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_032 | Original US  Ref |  |
| Type | New | | |
| As a :Admin with read/write access to the system  I want to : create new Students  So that I can: register new Students into the system by entering their information | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\admin create profile.png**  **More details needs such as exam and we will need to put soenoets about the student so every time when we see this student we will be able to see the note**  **As I said before, in the current design you do not enter the exam information upon registration.**  **An interface for adding notes will be added.**  **We have added the stories for your new requirements. Please refer to these new stories.**  **We have added the stories for your new requirements.Refer to new story 3.11.7** | | | |
| **Success:**   * Admin will open the admin panel directly bytyping the URL. * Admin will click enter the login credentials in the form that appears, and click on the “Login Button” * Admin will click on the “Students” tab on the menu * Admin will click on the “Create Student” Link * Admin will be shown a form with fields for the first and last names, email, phone number, address and country. * Admin will enter these details and click on the “Create” button. | | | |
| **Failures:**   * If the admin enters an invalid e-mail. * If the admin enters an e-mail address already having a Student account. * Network failure.   **Error Message:**   * “The e-mail you entered is invalid”. * “A Student with this email address already exists”. * “Cannot connect to the internet”. | | | |
| **Notes:**A password for the user will be auto generated when the Student profile is created  **Email the auto generated password to student’s email address**  **This can be done.**  **Admin should be able to select the paper and the quantity of papers that a student can attempt.**  **I have previously mentioned multiple times regarding this. I think it is best if we can discuss further on this.**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 

### 3.6.3 Edit Student

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_033 | Original US  Ref |  |
| Type | New | | |
| As a :Admin with read/write access to the system  I want to : edit Students  So that I can: change the details of students | | | |
| **User Interface:**  C:\Users\melakaa\Desktop\Top Cima\admin edit profile.png | | | |
| **Success:**   * Admin will open the adminpanel directly bytyping the URL. * Admin will click enter the login credentials in the form that appears, and click on the “Login Button” * Admin will click on the “Students” tab on the menu * Admin will click on the “Manage Student” Link * Admin will be shown a list of details about the registered student in the format of a table. * Admin will click on the Edit icon () on the “Actions” column * Admin will be shown the edit profile page * Admin will change the details of the Student * Admin will click on the “Save” button | | | |
| **Failures:**   * If the admin enters an invalid e-mail. * If the admin enters an e-mail address already having a Student account. * Network failure.   **Error Message:**   * “The e-mail you entered is invalid”. * “A Student with this email address already exists”. * “Cannot connect to the internet”. | | | |
| **Notes:**A password for the user will be auto generated when the Student profile is created  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.6.4 Delete Students

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_034 | Original US  Ref |  |
| Type | New | | |
| As a :Admin with read/write access to the system  I want to : Delete Students  So that I can: remove accounts of Students | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\admin delete  student.png**  **I think inactive is what is needed**  **Yes.**  **We have added the stories for your new requirements. Refer to new story 3.11.4** | | | |
| **Success:**   * Admin will open the adminpanel directly bytyping the URL. * Admin will click enter the login credentials in the form that appears, and click on the “Login Button” * Admin will click on the “Students” tab on the menu * Admin will click on the “Manage Student” Link * Admin will be shown a list of details about the registered student in the format of a table. * Admin will click on the Remove icon () on the “Actions” column * Admin will be shown an alert with the message “Are you sure that you want to delete this Student?” * If the admin selects “OK” the Student account will be deleted. * If the admin selects “Cancel”, the admin will be returned to the list of details about the Registered Students. | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.6.5 Suspend Students

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_035 | Original US  Ref |  |
| Type | New | | |
| As a :Admin with read/write access to the system  I want to : Suspend Students  So that I can: restrict the user from accessing the system without deleting their profile | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\admin Suspend student.png** | | | |
| **Success:**   * Admin will open the adminpanel directly bytyping the URL. * Admin will click enter the login credentials in the form that appears, and click on the “Login Button” * Admin will click on the “Students” tab on the menu * Admin will click on the “Manage Student” Link * Admin will be shown a list of details about the registered student in the format of a table. * Admin will click on the “Suspend” buttonon the “Status” column * Admin will be shown an alert with the message “Are you sure that you want to Suspend this Student?” * If the admin selects “OK” the Student account will be suspended. * If the admin selects “Cancel”, the admin will be returned to the list of details about the Registered Students. | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.6.6 Manage Students

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_036 | Original US  Ref |  |
| Type | New | | |
| As a :Admin with read/write access to the system  I want to : Manage Students  So that I can: view the details of all the students in one format in a table, where the admin can search each field | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\admin Suspend student.png** | | | |
| **Success:**   * Admin will open the adminpanel directly bytyping the URL. * Admin will click enter the login credentials in the form that appears, and click on the “Login Button” * Admin will click on the “Students” tab on the menu * Admin will click on the “Manage Student” Link * Admin will be shown a list of details about the registered students in the format of a table. * Admin will view the details of the Registered Students from here. | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**From here the admin can access the icons to delete/suspend/view/edit the Student Accounts  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.6.7 Re-Activate Students

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_037 | Original US  Ref |  |
| Type | New | | |
| As a :Admin with read/write access to the system  I want to : Re-Activate Students  So that I can: give access to the Student to take exams, and use the systems other functionalities. | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\admin Reactivate student.png** | | | |
| **Success:**   * Admin will open the adminpanel directly bytyping the URL. * Admin will click enter the login credentials in the form that appears, and click on the “Login Button” * Admin will click on the “Students” tab on the menu * Admin will click on the “Manage Student” Link * Admin will be shown a list of details about the registered student in the format of a table. * If the Student has a suspended status, a “Re-Activate” button will be shown in the “Status” column next to the students’ record. * Admin will click on the “Re-Activate” button * Admin will be shown an alert with the message “Are you sure you want to re-activate this student?” | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

## 3.7 Exam Management (Admin)

### 3.7.1 Create an Exam

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_038 | Original US  Ref |  |
| Type | New | | |
| As a :Admin with read/write access to the system  I want to : Create an Exam  So that I can : select the weightage for each of the subject areas, and the weightage for each of the question types in each of the subject areas. | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\admin create exam.png**  Not sure why we need this as this paper cannot be created by admin separately for each paper, it should be standard instruction for a paper and everytme when student select the paper system should crate a paper based on earlier given instructions. Please confirm this is the understanding ? And when you set a paper we will need to set time and whether calculator would be allowed etc as well. Anyway as mentioned becore we will need to store standard paper as ell so stundetswill get the first paper firtansd then the second apepr, So system needs to see whether this student has done which paper.  This interface is to set the standards of the exam. The exam questions are not handpicked. We need to discuss on these details in details.  **We have added the stories for your new requirements.Refer to new stories 3.11.12 to 3.11.15** | | | |
| **Success:**   * Admin will open the adminpanel directly bytyping the URL. * Admin will click enter the login credentials in the form that appears, and click on the “Login Button” * Admin will click on the “Exams” tab on the menu * Admin will click on the “Create Exam” Link * Admin will be shown a form which will contain fields to enter the course, level, and the title of the exam. * Admin will be shown an area to enter the weightage of questions to be included in the paper for each subject area. * Admin will be shown an area to enter the weightage of questions to be included in the paper for each type of questions.**(This is not clear in the given interface. There should be an option to set x% from subject area 1, y% from subject area 2, etc.). Solved.** * Admin will enter all these values. * Admin will click on the “Create” button on the bottom left. | | | |
| **Failures:**   * If the admin enters an exam name that is already in use. * Network failure.   **Error Message:**   * “The Exam title that you have entered is already in use”. * “Cannot connect to the internet”. | | | |
| **Notes:**If the admin does not want to include any questions from a particular subject area, the admin will enter “0” as the weightage. Also, if the admin does not want to include any questions from a particular type of question, the admin will enter “0” as the weightage.  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.7.2 Edit an Exam

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_039 | Original US  Ref |  |
| Type | New | | |
| As a :Admin with read/write access to the system  I want to : Edit an Exam  So that I can : change any existing details about a particular exam. | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\admin edit exam.png** | | | |
| **Success:**   * Admin will open the adminpanel directly bytyping the URL. * Admin will click enter the login credentials in the form that appears, and click on the “Login Button” * Admin will click on the “Exams” tab on the menu * Admin will click on the “Manage Exams” Link * Admin will be shown a list of details about the available exams in the format of a table. * Admin will click on the Edit icon () on the “Actions” column * Admin will be shown the edit exam page * Admin will change the details of the Exam * Admin will click on the “Save” button | | | |
| **Failures:**   * If the admin enters an exam name that is already in use. * Network failure.   **Error Message:**   * “The Exam title that you have entered is already in use”. * “Cannot connect to the internet”. | | | |
| **Notes:**If the admin does not want to include any questions from a particular subject area, the admin will enter “0” as the weightage. Also, if the admin does not want to include any questions from a particular type of question, the admin will enter “0” as the weightage.  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.7.3 Delete Exams

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_040 | Original US  Ref |  |
| Type | New | | |
| As a :Admin with read/write access to the system  I want to : Delete Exams  So that I can: remove availability of that particular Exam | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\admin delete exam.png** | | | |
| **Success:**   * Admin will open the adminpanel directly bytyping the URL. * Admin will click enter the login credentials in the form that appears, and click on the “Login Button” * Admin will click on the “Exams” tab on the menu * Admin will click on the “Manage Exams” Link * Admin will be shown a list of details about the available exams in the format of a table. * Admin will click on the Remove icon () on the “Actions” column * Admin will be shown an alert with the message “Are you sure that you want to delete this Exam?” * If the admin selects “OK” the Exam will be deleted. * If the admin selects “Cancel”, the admin will be returned to the list of details about the available Exams. | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.7.4 Manage Exams

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_041 | Original US  Ref |  |
| Type | New | | |
| As a :Admin with read/write access to the system  I want to : Manage Exams  So that I can: view the details of all the exams in one format in a table, where the admin can search each field | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\admin Manage Exams.png** | | | |
| **Success:**   * Admin will open the adminpanel directly bytyping the URL. * Admin will click enter the login credentials in the form that appears, and click on the “Login Button” * Admin will click on the “Exams” tab on the menu * Admin will click on the “Manage Exams” Link * Admin will be shown a list of details about the available exams in the format of a table. * Admin will view the details of the Registered Exams from here. | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**From here the admin can access the icons to delete /view/edit the Exams. The admin can also search each field from the search box below the column title.  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.7.5 View Available Exams

|  |
| --- |
| US Ref |
| Type |
| As a :Admin with read/write access to the system  I want to : view the available exams  So that I can: view their details, and change them if necessary | |
| **User Interface:**  C:\Users\melakaa\Desktop\Top Cima\admin View Exams.png  **This is not clear, this screen should be subject wise and may be we cannot show how many papers are available as there is no limit. And we will need both options ?**  **There are no logical/physical papers stores in the current design. These are actually the standards that are used when creating each exam. They can view these standards in detail.**  **We have added the stories for your new requirements. Refer to new story 3.11.25** | |
| **Success:**   * Admin will open the admin panel directly bytyping the URL. * Admin will click enter the login credentials in the form that appears, and click on the “Login Button” * Admin will click on the “Exams” tab on the menu * Admin will click on the “View Exams” Link * Admin will be shown the details of all the Exams | |
| **Failures:**   * If the admin enters an incorrect username or password. * Network failure.   **Error Message:**   * “The Password or Username entered is incorrect”. * “Cannot connect to the internet”. | |
| **Notes:**  **Alternatives:** | |
| **Acceptance Criteria:** | |

### 3.7.6 View individual Exams

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_043 | Original US  Ref |  |
| Type | New | | |
| As a :Admin with read/write access to the system  I want to : view individual exams  So that I can: view each exam in detail | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\admin view exam.png** | | | |
| **Success:**   * Admin will open the adminpanel directly bytyping the URL. * Admin will click enter the login credentials in the form that appears, and click on the “Login Button” * Admin will click on the “Exams” tab on the menu * Admin will click on the “Manage Exams” Link * Admin will be shown a list of details about the available exams in the format of a table. * Admin will click on the View icon () on the “Actions” column * Admin will be shown the details of the exam in detail (Course, Level, Exam Title, and the weightage for each level is shown. Also the weightage of each type of question in each level will also be shown) | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

## 3.8 Lecturer Management (admin)

### 3.8.1 Create a Lecturer

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_044 | Original US  Ref |  |
| Type | New | | |
| As a :Admin with read/write access to the system  I want to : Create a Lecturer  So that I can: register new Lecturers into the system by entering their information | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\admin create lecturer.png**  **We will need to crate View Only Users and for lecturers we will need to give what they can do, function wise approval**  **Please elaborate on this, as it is unclear**  **We will have one super admin, and give him the permission to create any number of admins, with different access levels.** | | | |
| **Success:**   * Admin will open the adminpanel directly bytyping the URL. * Admin will click enter the login credentials in the form that appears, and click on the “Login Button” * Admin will click on the “Exams” tab on the menu * Admin will click on the “Create Exam” Link * Admin will be shown a form which contains areas for the admin to enter the details about the Lecturer * Admin will enter the details in the text boxes, and select the course, level and exam using the drop-down menus. * Admin will click on the “Create” button. | | | |
| **Failures:**   * If the admin enters an invalid e-mail. * If the admin enters an e-mail that is already in use. * Network failure.   **Error Message:**   * “The entered e-mail is invalid”. * “The entered e-mail is already in use”. * “Cannot connect to the internet”. | | | |
| **Notes:How to handle if one lecturer handles more than one level or exam title?**  **Currently, this is not handled. You will need to provide us constraints for setting exams to lecturers.**  **We have added the stories for your new requirements. Refer to new story 3.11.27**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.8.2 View Registered Lecturers

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_045 | Original US  Ref |  |
| Type | New | | |
| As a :Admin with read/write access to the system  I want to : view the registered lecturers  So that I can: view their details, and change them if necessary | | | |
| **User Interface:**  C:\Users\melakaa\Desktop\Top Cima\admin view lecturers.png  **Need more details**  **We show them in detail in another interface. Please refer below.** | | | |
| **Success:**   * Admin will open the admin panel directly bytyping the URL. * Admin will click enter the login credentials in the form that appears, and click on the “Login Button” * Admin will click on the “Lecturers” tab on the menu * Admin will click on the “View Lecturers” Link * Admin will be shown the details of all the Lecturers | | | |
| **Failures:**   * If the admin enters an incorrect username or password. * Network failure.   **Error Message:**   * “The Password or Username entered is incorrect”. * “Cannot connect to the internet”. | | | |
| **Notes:**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.8.3 Edit Lecturers

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_046 | Original US  Ref |  |
| Type | New | | |
| As a :Admin with read/write access to the system  I want to : Edit Lecturers  So that I can: change the details of Lecturers | | | |
| **User Interface:**  C:\Users\melakaa\Desktop\Top Cima\admin edit lecturer.png | | | |
| **Success:**   * Admin will open the adminpanel directly bytyping the URL. * Admin will click enter the login credentials in the form that appears, and click on the “Login Button” * Admin will click on the “Lecturers” tab on the menu * Admin will click on the “Manage Lecturers” Link * Admin will be shown a list of details about the registered Lecturers in the format of a table. * Admin will click on the Edit icon () on the “Actions” column * Admin will be shown the edit profile page * Admin will change the details of the Lecturer * Admin will click on the “Save” button | | | |
| **Failures:**   * If the admin enters an invalid e-mail. * If the admin enters an e-mail address already having a Lecturer account. * Network failure.   **Error Message:**   * “The e-mail you entered is invalid”. * “A Lecturer with this email address already exists”. * “Cannot connect to the internet”. | | | |
| **Notes:**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.8.4 Delete Lecturers

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_047 | Original US  Ref |  |
| Type | New | | |
| As a :Admin with read/write access to the system  I want to : Delete Lecturers  So that I can: remove accounts of Lecturers | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\admin delete lecturer.png** | | | |
| **Success:**   * Admin will open the adminpanel directly bytyping the URL. * Admin will click enter the login credentials in the form that appears, and click on the “Login Button” * Admin will click on the “Lecturers” tab on the menu * Admin will click on the “Manage Lecturers” Link * Admin will be shown a list of details about the registered Lecturer in the format of a table. * Admin will click on the Remove icon () on the “Actions” column * Admin will be shown an alert with the message “Are you sure that you want to delete this Lecturer?” * If the admin selects “OK” the Lecturers’ account will be deleted. * If the admin selects “Cancel”, the admin will be returned to the list of details about the Registered Lecturers. | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.8.5 Manage Lecturers

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_048 | Original US  Ref |  |
| Type | New | | |
| As a :Admin with read/write access to the system  I want to : Manage Lecturers  So that I can: view the details of all the Lecturers in one format in a table, where the admin can search each field | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\admin manage lecturer.png** | | | |
| **Success:**   * Admin will open the adminpanel directly bytyping the URL. * Admin will click enter the login credentials in the form that appears, and click on the “Login Button” * Admin will click on the “Lecturers” tab on the menu * Admin will click on the “Manage Lecturers” Link * Admin will be shown a list of details about the registered Lecturers in the format of a table. * Admin will view the details of the Registered Lecturers from here. | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**From here the admin can access the icons to delete/suspend/view/edit the Student Accounts. **We will need the facility to see what work done by the lecturer such as what papers were uploaded and marked as in phase 2 lecturers will mark papers online as well**  **Please elaborate on this, in explaining the work that can be done by lecturers.**  **As discussed, we will achieve this using admin management by the super admin.**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.8.6 View Individual Lecturers

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_049 | Original US  Ref |  |
| Type | New | | |
| As a :Admin with read/write access to the system  I want to : view individual Lecturers  So that I can: view each Lecturer in detail | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\admin view lecturer.png** | | | |
| **Success:**   * Admin will open the adminpanel directly bytyping the URL. * Admin will click enter the login credentials in the form that appears, and click on the “Login Button” * Admin will click on the “Lecturers” tab on the menu * Admin will click on the “Manage Lecturers” Link * Admin will be shown a list of details about the registered Lecturers in the format of a table. * Admin will click on the View icon () on the “Actions” column * Admin will be shown the details of the Lecturer in detail (First and Last names. E-mail, phone number, Course, Level and Exam Title will be shown) | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

## 3.9 Result Management (admin)

### 3.9.1 View Exam Results of Each Student

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_050 | Original US  Ref |  |
| Type | New | | |
| As a :Admin with read/write access to the system  I want to : view exam results of each Student  So that I can: have an assessment of the Student by studying his past performances. | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\admin view results per student.png**  **We need to see question paper wise marks first, as each student can do many different papers for the same subject.**  **The drop down menus will be there for the filtering. Please refer to the notes of the story for information on how the filtering is done. Through this filtering the student can see his marks for each exam he has done.**  **The advanced reports will be exported to excel.** | | | |
| **Success:**   * Admin will open the adminpanel directly bytyping the URL. * Admin will click enter the login credentials in the form that appears, and click on the “Login Button” * Admin will click on the “Results” tab on the menu * Admin will click on the “View Results Per Student” Link * Admin will be select the Student ID of the Student whose results are to be viewed, from the drop down menu * Admin will select the course from the drop down box next to “Course”**(letting admin type with an auto complete facility would be more convenient) .Alrite. This can be done** * Admin will select the level from the drop down box next to “Level” * Admin will select the Exam from the drop down next to “Exam”. * Admin will be shown a summary table with the number of correct answers that the student got for each subject area. * Admin will be shown an exam breakdown contain each question, its study area, the time taken to complete it and the result. | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**   * When the student ID is chosen, the courses that the student takes will be loaded into the courses drop down. * When the course is chosen, the levels for that course are loaded onto the levels drop down. * When the level is selected, the exams belonging to that level are loaded into the exams drop down. * When the exam is chosen, the details regarding the students performance in that exam is displayed.   **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 

### 3.9.2 View Exam results of each Exam

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_051 | Original US  Ref |  |
| Type | New | | |
| As a : Admin with read/write access to the system  I want to : view exam results of each Exam  So that I can : have an assessment of the exam based on overall performance across the exam. | | | |
| User Interface:  C:\Users\melakaa\Desktop\Top Cima\admin view results per exam.png  **This is very good and we will need question wsie analysis as well. And above we canot say Exam as there will be many different mocks for each subject so we will need to take mock exam wise and summary of all mcok exams for each subject**  **Please elaborate further on these “mock” exams**  **Question wise Analysis, is an added functionality.** | | | |
| Success:   * Admin will open the admin panel directly by typing the URL. * Admin will click enter the login credentials in the form that appears, and click on the “Login Button” * Admin will click on the “Results” tab on the menu * Admin will click on the “View Results Per Exam” Link * Admin will select the course from the drop down box next to “Course” * Admin will select the level from the drop down box next to “Level” * Admin will select the Exam from the drop down next to “Exam”. * Admin will be shown a set of information about the overall performance of all the students who took the selected exam. (The details include: highest mark, lowest mark, average mark, longest time take, shortest time taken, average time taken, number of passes and number of fails) | | | |
| Failures:   * Network failure.   Error Message:   * “Cannot connect to the internet”. | | | |
| Notes:   * When the course is chosen, the levels for that course are loaded onto the levels drop down. * When the level is selected, the exams belonging to that level are loaded into the exams drop down. * When the exam is chosen, the details regarding the overall exam performance is displayed.   Alternatives: | | | |
| Acceptance Criteria: | | | |

### 3.9.3 View exam results of each Subject Area

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_052 | Original US  Ref |  |
| Type | New | | |
| As a :Admin with read/write access to the system  I want to : view exam results of each Subject Area  So that I can: have an assessment of the subject areas based on performance in each subject area. | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\admin view results per subject area.png** | | | |
| **Success:**   * Admin will open the adminpanel directly bytyping the URL. * Admin will click enter the login credentials in the form that appears, and click on the “Login Button” * Admin will click on the “Results” tab on the menu * Admin will click on the “View Results Per Subject Area” Link * Admin will select the course from the drop down box next to “Course” * Admin will select the level from the drop down box next to “Level” * Admin will select the Subject Area from the drop down next to “Subject Area”. * Admin will be shown a set of information about the overall performance of all the students who did questions in the selected subject area. (The details include: highest mark, lowest mark, average mark, longest time take, shortest time taken, average time taken, number of passes and number of fails) | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**   * When the course is chosen, the levels for that course are loaded onto the levels drop down. * When the level is selected, the subject areas belonging to that level are loaded into the subject areas drop down. * When the subject area is chosen, the details regarding the overall performance in the subject area is displayed.   **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.9.4 View exam results of each batch

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_052 | Original US  Ref |  |
| Type | New | | |
| As a :Admin with read/write access to the system  I want to : view exam results of each batch  So that I can: have an assessment of the batches based on their performances. | | | |
| **User Interface:**  Macintosh HD:Users:Jehan:Desktop:Untitled-1.png | | | |
| **Success:**   * Admin will open the admin panel directly by typing the URL. * Admin will click enter the login credentials in the form that appears, and click on the “Login Button” * Admin will click on the “Results” tab on the menu * Admin will click on the “View Results Per Subject Area” Link * Admin will select the course from the drop down box next to “Course” * Admin will select the level from the drop down box next to “Level” * Admin will select the Sitting from the drop down next to “Sitting”. * Admin will be shown a set of information about the overall performance of all the students who did questions in the selected batch (The details include: highest mark, lowest mark, average mark, longest time take, shortest time taken, average time taken, number of passes and number of fails) | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**   * When the course is chosen, the levels for that course are loaded onto the levels drop down. * When the level is selected, the subject areas belonging to that level are loaded into the subject areas drop down. * When the sitting is chosen, the details regarding the overall performance in the batch is displayed.   **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

## 3.10 Question Management (admin)

### 3.10.1 Create Single Answer Questions

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_053 | Original US  Ref |  |
| Type | New | | |
| As a :Admin with read/write access to the system  I want to : create single answer questions  So that I can: create a question with four different answer options, where only one is correct. | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\admin create single answer question.png**  **We will need to ensure to keep a track of who creates it, and then can we enter all questions to an excel pre agreed format and then upload that excel file. This I am referring to entering an entire paper.**  **Yes, we can save the credentials of the admin who is logged in when the question is created. The question is directly added on to the question bank in the database.** | | | |
| **Success:**   * Admin will open the admin panel directly by typing the URL. * Admin will click enter the login credentials in the form that appears, and click on the “Login Button” * Admin will click on the “Questions” tab on the menu * Admin will click on the “Create Single Answer Question” Link * Admin will select the course from the drop down box next to “Course” * Admin will select the level from the drop down box next to “Level” * Admin will select the Subject Area from the drop down next to “Subject Area”. * Admin will select the type of question from the drop down menu next to “Type” as “Single Answer Question” * Admin will design the question in the format that is required, using the question design interface.**(Question design interface should has the facility of a word processor & upload images within the questions if required)** * **Yes. The Question Design interface will have full functionality.** * Admin will enter four answer options * Admin will enter the correct answer * Admin will click on the “Create” button | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**   * When the course is chosen, the levels for that course are loaded onto the levels drop down. * When the level is selected, the subject areas belonging to that level are loaded into the subject areas drop down. * The drop-down next to “Type” contains the element: “Single answer question”, “multiple answer question”, “short written answer questions”, “multiple choice answer question”, “Drag & Drop Question Type A” and “Drag & Drop Question Type B” .   **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.10.2 Create multiple answer questions

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_054 | Original US  Ref |  |
| Type | New | | |
| As a :Admin with read/write access to the system  I want to : create multiple answer questions  So that I can: create a question with four different answer options, where many options are correct. | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\admin create multiple answer question.png**  **May be we need to enter how many marks for each question as well or marks can be defaukt for the all questions in a paper**  **Will you need to enter the number of marks for each question? If so we can provide a field for it. We need to discuss on this further.**  **We have added the stories for your new requirements.Refer to new story 3.11.23** | | | |
| **Success:**   * Admin will open the adminpanel directly bytyping the URL. * Admin will click enter the login credentials in the form that appears, and click on the “Login Button” * Admin will click on the “Questions” tab on the menu * Admin will click on the “Create Multiple Answer Question” Link * Admin will select the course from the drop down box next to “Course” * Admin will select the level from the drop down box next to “Level” * Admin will select the Subject Area from the drop down next to “Subject Area”. * Admin will select the type of question from the drop down menu next to “Type” as “Multiple Answer Question” * Admin will design the question in the format that is required, using the question design interface. * Admin will enter four answer options * Admin will enter the correct answer options * Admin will click on the “Create” button | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**   * When the course is chosen, the levels for that course are loaded onto the levels drop down. * When the level is selected, the subject areas belonging to that level are loaded into the subject areas drop down. * The drop-down next to “Type” contains the element: “Single answer question”, “multiple answer question”, “short written answer questions”, “multiple choice answer question”, “Drag & Drop Question Type A” and “Drag & Drop Question Type B” . * If all four question options are not correct, the non-applicable correct answer fields can be kept blank   **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.10.3 Create Short written answer questions

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_055 | Original US  Ref |  |
| Type | New | | |
| As a :Admin with read/write access to the system  I want to : create short written answer questions  So that I can: create a question with an area for the Student to enter the answer. | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\admin create short written answer question.png** | | | |
| **Success:**   * Admin will open the adminpanel directly bytyping the URL. * Admin will click enter the login credentials in the form that appears, and click on the “Login Button” * Admin will click on the “Questions” tab on the menu * Admin will click on the “Create Short Written Answer Question” Link * Admin will select the course from the drop down box next to “Course” * Admin will select the level from the drop down box next to “Level” * Admin will select the Subject Area from the drop down next to “Subject Area”. * Admin will select the type of question from the drop down menu next to “Type” as “Short Written Answer Question” * Admin will design the question in the format that is required, using the question design interface. * Admin will enter the correct answer in the area provided. * Admin will click on the “Create” button | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**   * When the course is chosen, the levels for that course are loaded onto the levels drop down. * When the level is selected, the subject areas belonging to that level are loaded into the subject areas drop down. * The drop-down next to “Type” contains the element: “Single answer question”, “multiple answer question”, “short written answer questions”, “multiple choice answer question”, “Drag & Drop Question Type A” and “Drag & Drop Question Type B” .   **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.10.4 Create Type A Drag and Drop answer questions

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_056 | Original US  Ref |  |
| Type | New | | |
| As a :Admin with read/write access to the system  I want to : create drag and drop questions  So that I can: map each answer option to the correct question option | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\admin create drag and drop type A question.png** | | | |
| **Success:**   * Admin will open the adminpanel directly bytyping the URL. * Admin will click enter the login credentials in the form that appears, and click on the “Login Button” * Admin will click on the “Questions” tab on the menu * Admin will click on the “Create Drag& Drop Answer Type A Question” Link * Admin will select the course from the drop down box next to “Course” * Admin will select the level from the drop down box next to “Level” * Admin will select the Subject Area from the drop down next to “Subject Area”. * Admin will select the type of question from the drop down menu next to “Type” as “Drag & Drop Answer Question” * Admin will select the sub-type of the question from the drop-down menu next to “Sub-Type” as “Type A”. * Admin will design the question in the format that is required, using the question design interface. * Admin will enter the four question options in the areas provided. * Admin will enter the four answer options in the areas provided. * Admin will enter the correct mapping between each question option and its respective correct answer option. * Admin will click on the “Create” button | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**   * When the course is chosen, the levels for that course are loaded onto the levels drop down. * When the level is selected, the subject areas belonging to that level are loaded into the subject areas drop down. * The drop-down next to “Type” contains the element: “Single answer question”, “multiple answer question”, “short written answer questions”, “multiple choice answer question”, “Drag & Drop Question Type A” and “Drag & Drop Question Type B” .   **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.10.5 Create Type B Drag and Drop answer questions

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_057 | Original US  Ref |  |
| Type | New | | |
| As a :Admin with read/write access to the system  I want to : create drag and drop questions  So that I can: map each answer option to the correct position in the table | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\admin create drag and drop type B question.png** | | | |
| **Success:**   * Admin will open the adminpanel directly bytyping the URL. * Admin will click enter the login credentials in the form that appears, and click on the “Login Button” * Admin will click on the “Questions” tab on the menu * Admin will click on the “Create Drag& Drop Answer Type A Question” Link * Admin will select the course from the drop down box next to “Course” * Admin will select the level from the drop down box next to “Level” * Admin will select the Subject Area from the drop down next to “Subject Area”. * Admin will select the type of question from the drop down menu next to “Type” as “Drag & Drop Answer Question” * Admin will select the sub-type of the question from the drop-down menu next to “Sub-Type” as “Type B”. * Admin will design the question in the format that is required, using the question design interface. * Admin will enter the two question options in the areas provided. * Admin will enter the four answer options in the areas provided. * Admin will enter the correct mapping between each question option and its respective correct answer option. * Admin will click on the “Create” button | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**   * When the course is chosen, the levels for that course are loaded onto the levels drop down. * When the level is selected, the subject areas belonging to that level are loaded into the subject areas drop down. * The drop-down next to “Type” contains the element: “Single answer question”, “multiple answer question”, “short written answer questions”, “multiple choice answer question”, “Drag & Drop Question Type A” and “Drag & Drop Question Type B” .   **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.10.6 Create multiple choice answer questions

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_058 | Original US  Ref |  |
| Type | New | | |
| As a :Admin with read/write access to the system  I want to : create multiple choice answer questions  So that I can: have a question where the correct answer option for each question option should be selected from multiple answer options | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\admin create multiple choice answer question.png** | | | |
| **Success:**   * Admin will open the adminpanel directly bytyping the URL. * Admin will click enter the login credentials in the form that appears, and click on the “Login Button” * Admin will click on the “Questions” tab on the menu * Admin will click on the “Create Drag& Drop Answer Type A Question” Link * Admin will select the course from the drop down box next to “Course” * Admin will select the level from the drop down box next to “Level” * Admin will select the Subject Area from the drop down next to “Subject Area”. * Admin will select the type of question from the drop down menu next to “Type” as “Multiple Choice Answer Question” * Admin will design the question in the format that is required, using the question design interface. * Admin will enter each of the question options * Admin will enter the answer options for each of the question options in the areas provided. * Admin will enter the mapping between each question option, and its respective correct anser * Admin will click on the “Create” button | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**   * When the course is chosen, the levels for that course are loaded onto the levels drop down. * When the level is selected, the subject areas belonging to that level are loaded into the subject areas drop down. * The drop-down next to “Type” contains the element: “Single answer question”, “multiple answer question”, “short written answer questions”, “multiple choice answer question”, “Drag & Drop Question Type A” and “Drag & Drop Question Type B” .   **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.10.7 View Available Questions

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_059 | Original US  Ref |  |
| Type | New | | |
| As a :Admin with read/write access to the system  I want to : view the available questions  So that I can: view their details, and change them if necessary | | | |
| **User Interface:**  C:\Users\melakaa\Desktop\Top Cima\admin view questions.png | | | |
| **Success:**   * Admin will open the admin panel directly bytyping the URL. * Admin will click enter the login credentials in the form that appears, and click on the “Login Button” * Admin will click on the “Questions” tab on the menu * Admin will click on the “View Questions” Link * Admin will be shown the details of all the Questions | | | |
| **Failures:**   * If the admin enters an incorrect username or password. * Network failure.   **Error Message:**   * “The Password or Username entered is incorrect”. * “Cannot connect to the internet”. | | | |
| **Notes:**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.10.8 Manage Questions

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_060 | Original US  Ref |  |
| Type | New | | |
| As a :Admin with read/write access to the system  I want to : Manage Questions  So that I can: view the details of all the questions in one format in a table, where the admin can search each field | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\admin manage questions.png** | | | |
| **Success:**   * Admin will open the adminpanel directly bytyping the URL. * Admin will click enter the login credentials in the form that appears, and click on the “Login Button” * Admin will click on the “Questions” tab on the menu * Admin will click on the “Manage Questions” Link * Admin will be shown a list of details about the available questions in the format of a table. * Admin will view the details of the Registered Questions from here. | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**From here the admin can access the icons to delete /view/edit the Questions. The admin can also search each field from the search box below the column title.**We will need a higher level pass word to approve questions to be added to the question bank. Or higher level to approve the paper that was uploaded by a lecturer before a studdnetsee it.**  **You need to discuss about different types of admins with us, and the process of how to create the admins.**  **Solved**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.10.9 Delete Questions

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_061 | Original US  Ref |  |
| Type | New | | |
| As a :Admin with read/write access to the system  I want to : Delete Questions  So that I can: remove a particular Question from the question base | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\admin delete questions.png** | | | |
| **Success:**   * Admin will open the adminpanel directly bytyping the URL. * Admin will click enter the login credentials in the form that appears, and click on the “Login Button” * Admin will click on the “Questions” tab on the menu * Admin will click on the “Manage Questions” Link * Admin will be shown a list of details about the available questions in the format of a table. * Admin will click on the Remove icon () on the “Actions” column * Admin will be shown an alert with the message “Are you sure that you want to delete this Question?” * If the admin selects “OK” the Question will be deleted. * If the admin selects “Cancel”, the admin will be returned to the list of details about the available Questions. | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.10.10 Suspend Questions

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_062 | Original US  Ref |  |
| Type | New | | |
| As a :Admin with read/write access to the system  I want to : Suspend Questions  So that I can: restrict the question from being included in any exams, without deleting the question. | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\admin suspend questions.png** | | | |
| **Success:**   * Admin will open the adminpanel directly bytyping the URL. * Admin will click enter the login credentials in the form that appears, and click on the “Login Button” * Admin will click on the “Questions” tab on the menu * Admin will click on the “Manage Questions” Link * Admin will be shown a list of details about the registered question in the format of a table. * Admin will click on the “Suspend” buttonon the “Status” column * Admin will be shown an alert with the message “Are you sure that you want to Suspend this Question?” * If the admin selects “OK” the Question will be suspended. * If the admin selects “Cancel”, the admin will be returned to the list of details about the Registered Questions. | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.10.11 Re-Activate Questions

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_063 | Original US  Ref |  |
| Type | New | | |
| As a :Admin with read/write access to the system  I want to : Re-Activate Questions  So that I can: Make those questions eligible to be selected when choosing questions for an exam | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\admin reactivate question.png** | | | |
| **Success:**   * Admin will open the adminpanel directly bytyping the URL. * Admin will click enter the login credentials in the form that appears, and click on the “Login Button” * Admin will click on the “Questions” tab on the menu * Admin will click on the “Manage Questions” Link * Admin will be shown a list of details about the registered questions in the format of a table. * If the Question has a suspended status, a “Re-Activate” button will be shown in the “Status” column next to the Questions’ record. * Admin will click on the “Re-Activate” button * Admin will be shown an alert with the message “Are you sure you want to re-activate this Question?” | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.10.12 Edit Single Answer Questions

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_064 | Original US  Ref |  |
| Type | New | | |
| As a :Admin with read/write access to the system  I want to : Edit Single answer questions  So that I can: change the details about the question such as the question options, answer options and correct answer | | | |
| **User Interface:**  C:\Users\melakaa\Desktop\Top Cima\admin edit single answer question.png | | | |
| **Success:**   * Admin will open the adminpanel directly bytyping the URL. * Admin will click enter the login credentials in the form that appears, and click on the “Login Button” * Admin will click on the “Questions” tab on the menu * Admin will click on the “Manage Questions” Link * Admin will be shown a list of details about the registered questions in the format of a table. * Admin will click on the Edit icon () on the “Actions” column, next to a single answer questions record. * Admin will be shown the edit single answer question page * Admin will change the details of the question * Admin will click on the “Save” button | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.10.13 Edit Multiple answer questions

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_065 | Original US  Ref |  |
| Type | New | | |
| As a :Admin with read/write access to the system  I want to : Edit Multiple answer questions  So that I can: change the details about the question such as the question options, answer options and correct answer | | | |
| **User Interface:**  C:\Users\melakaa\Desktop\Top Cima\admin edit muliple choice answer question.png | | | |
| **Success:**   * Admin will open the adminpanel directly bytyping the URL. * Admin will click enter the login credentials in the form that appears, and click on the “Login Button” * Admin will click on the “Questions” tab on the menu * Admin will click on the “Manage Questions” Link * Admin will be shown a list of details about the registered questions in the format of a table. * Admin will click on the Edit icon () on the “Actions” column, next to a multiple answer questions record * Admin will be shown the edit multiple answer question page * Admin will change the details of the question * Admin will click on the “Save” button | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.10.14 Edit Short Written Answer Questions

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_066 | Original US  Ref |  |
| Type | New | | |
| As a :Admin with read/write access to the system  I want to : Edit Short Written Answer questions  So that I can: change the details about the question | | | |
| **User Interface:**  C:\Users\melakaa\Desktop\Top Cima\admin edit short written answer question.png | | | |
| **Success:**   * Admin will open the adminpanel directly bytyping the URL. * Admin will click enter the login credentials in the form that appears, and click on the “Login Button” * Admin will click on the “Questions” tab on the menu * Admin will click on the “Manage Questions” Link * Admin will be shown a list of details about the registered questions in the format of a table. * Admin will click on the Edit icon () on the “Actions” column, next to a short written answer questions record * Admin will be shown the edit short written answer question page * Admin will change the details of the question * Admin will click on the “Save” button | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.10.15 Edit Drag and Drop Type A Answer Questions

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_067 | Original US  Ref |  |
| Type | New | | |
| As a :Admin with read/write access to the system  I want to : Edit Drag & Drop Answer Type A Questions  So that I can: change the details about the question such as the question options, answer options, and the mappings between them | | | |
| **User Interface:**  C:\Users\melakaa\Desktop\Top Cima\admin edit drag and drop answer question type A.png | | | |
| **Success:**   * Admin will open the adminpanel directly bytyping the URL. * Admin will click enter the login credentials in the form that appears, and click on the “Login Button” * Admin will click on the “Questions” tab on the menu * Admin will click on the “Manage Questions” Link * Admin will be shown a list of details about the registered questions in the format of a table. * Admin will click on the Edit icon () on the “Actions” column, next to a drag & drop answer type A questions record * Admin will be shown the edit drag & drop answer type A question page * Admin will change the details of the question * Admin will click on the “Save” button | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.10.16Edit Drag and Drop Type B Answer Questions

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_068 | Original US  Ref |  |
| Type | New | | |
| As a :Admin with read/write access to the system  I want to : Edit Drag & Drop Answer Type B Questions  So that I can: change the details about the question such as the question options, answer options, and the mappings between them | | | |
| **User Interface:**  C:\Users\melakaa\Desktop\Top Cima\admin edit drag and drop answer question type B.png | | | |
| **Success:**   * Admin will open the adminpanel directly bytyping the URL. * Admin will click enter the login credentials in the form that appears, and click on the “Login Button” * Admin will click on the “Questions” tab on the menu * Admin will click on the “Manage Questions” Link * Admin will be shown a list of details about the registered questions in the format of a table. * Admin will click on the Edit icon () on the “Actions” column, next to a drag & drop answer type B questions record * Admin will be shown the edit drag & drop answer type B question page * Admin will change the details of the question * Admin will click on the “Save” button | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.10.17 Edit Multiple choice answer questions

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_069 | Original US  Ref |  |
| Type | New | | |
| As a :Admin with read/write access to the system  I want to : Edit Multiple Choice Answer Questions  So that I can: change the details about the question such as the question options, answer options, and the mappings between them | | | |
| **User Interface:**  C:\Users\melakaa\Desktop\Top Cima\admin edit muliple choice answer question.png | | | |
| **Success:**   * Admin will open the adminpanel directly bytyping the URL. * Admin will click enter the login credentials in the form that appears, and click on the “Login Button” * Admin will click on the “Questions” tab on the menu * Admin will click on the “Manage Questions” Link * Admin will be shown a list of details about the registered questions in the format of a table. * Admin will click on the Edit icon () on the “Actions” column, next to a multiple choice answer questions’ record * Admin will be shown the edit multiple choice answer question page * Admin will change the details of the question * Admin will click on the “Save” button | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.10.18 View Individual Single Answer Questions

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_070 | Original US  Ref |  |
| Type | New | | |
| As a :Admin with read/write access to the system  I want to : view individual single answer questions  So that I can: view each question in detail | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\admin view single answer question.png** | | | |
| **Success:**   * Admin will open the adminpanel directly bytyping the URL. * Admin will click enter the login credentials in the form that appears, and click on the “Login Button” * Admin will click on the “Questions” tab on the menu * Admin will click on the “Manage Questions” Link * Admin will be shown a list of details about the available Questions in the format of a table. * Admin will click on the View icon () on the “Actions” column of a record which contains a single answer question. * Admin will be shown the details of the Question in detail (Course, Level, Exam Title, question and answer options, and the correct answer(s) to the question.) | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.10.19 View Individual Multiple Answer Questions

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_071 | Original US  Ref |  |
| Type | New | | |
| As a :Admin with read/write access to the system  I want to : view individual multiple answer questions  So that I can: view each question in detail | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\admin view multiple answer question.png** | | | |
| **Success:**   * Admin will open the adminpanel directly bytyping the URL. * Admin will click enter the login credentials in the form that appears, and click on the “Login Button” * Admin will click on the “Questions” tab on the menu * Admin will click on the “Manage Questions” Link * Admin will be shown a list of details about the available Questions in the format of a table. * Admin will click on the View icon () on the “Actions” column of a record which contains a multiple answer question. * Admin will be shown the details of the Question in detail (Course, Level, Exam Title, question and answer options, and the correct answer(s) to the question.) | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.10.20 View Individual Single Written Answer Questions

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_072 | Original US  Ref |  |
| Type | New | | |
| As a :Admin with read/write access to the system  I want to : view individual short written answer questions  So that I can: view each question in detail | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\admin view short written answer question.png** | | | |
| **Success:**   * Admin will open the adminpanel directly bytyping the URL. * Admin will click enter the login credentials in the form that appears, and click on the “Login Button” * Admin will click on the “Questions” tab on the menu * Admin will click on the “Manage Questions” Link * Admin will be shown a list of details about the available Questions in the format of a table. * Admin will click on the View icon () on the “Actions” column of a record which contains a short written answer question. * Admin will be shown the details of the Question in detail (Course, Level, Exam Title, question and answer options, and the correct answer(s) to the question.) | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.10.21 View Individual drag and drop type A answer Questions

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_073 | Original US  Ref |  |
| Type | New | | |
| As a :Admin with read/write access to the system  I want to : view individual drag and drop answer type A questions  So that I can: view each question in detail | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\admin view drag and drop answer type A question.png** | | | |
| **Success:**   * Admin will open the adminpanel directly bytyping the URL. * Admin will click enter the login credentials in the form that appears, and click on the “Login Button” * Admin will click on the “Questions” tab on the menu * Admin will click on the “Manage Questions” Link * Admin will be shown a list of details about the available Questions in the format of a table. * Admin will click on the View icon () on the “Actions” column of a record which contains a drag and drop answer type A question. * Admin will be shown the details of the Question in detail (Course, Level, Exam Title, question and answer options, and the correct answer(s) to the question.) | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.10.22 View Individual drag and drop type B answer Questions

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_074 | Original US  Ref |  |
| Type | New | | |
| As a :Admin with read/write access to the system  I want to : view individual drag and drop answer type B questions  So that I can: view each question in detail | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\admin view drag and drop answer type B question.png** | | | |
| **Success:**   * Admin will open the adminpanel directly bytyping the URL. * Admin will click enter the login credentials in the form that appears, and click on the “Login Button” * Admin will click on the “Questions” tab on the menu * Admin will click on the “Manage Questions” Link * Admin will be shown a list of details about the available Questions in the format of a table. * Admin will click on the View icon () on the “Actions” column of a record which contains a drag and drop answer type B question. * Admin will be shown the details of the Question in detail (Course, Level, Exam Title, question and answer options, and the correct answer(s) to the question.) | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.10.23 View Individual multiple choice answer Questions

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_075 | Original US  Ref |  |
| Type | New | | |
| As a :Admin with read/write access to the system  I want to : view individual multiple choice questions  So that I can: view each question in detail | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\admin view multiple choice answer question.png** | | | |
| **Success:**   * Admin will open the adminpanel directly bytyping the URL. * Admin will click enter the login credentials in the form that appears, and click on the “Login Button” * Admin will click on the “Questions” tab on the menu * Admin will click on the “Manage Questions” Link * Admin will be shown a list of details about the available Questions in the format of a table. * Admin will click on the View icon () on the “Actions” column of a record which contains a multiple choice answer B question. * Admin will be shown the details of the Question in detail (Course, Level, Exam Title, question and answer options, and the correct answer(s) to the question.) | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.10.23 View Individual Question Statistics

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_076 | Original US  Ref |  |
| Type | New | | |
| As a :Admin with read/write access to the system  I want to :View Question statistics  So that I can: get an idea about the role that each question is playing in the system. | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\admin view statistics.png** | | | |
| **Success:**   * Admin will open the adminpanel directly bytyping the URL. * Admin will click enter the login credentials in the form that appears, and click on the “Login Button” * Admin will click on the “Questions” tab on the menu * Admin will click on the “Manage Questions” Link * Admin will be shown a list of details about the available Questions in the format of a table. * Admin will click on the “View Question Statistics” button next to the question record in the table. * Admin will be shown the statistics of the chosen question. | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

## 3.11 New Stories

### 3.11.1 Select if calculator is allowed on exam upon creation

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_077 | Original US  Ref |  |
| Type | New | | |
| As a :Admin with read/write access to the system  I want to :Select if calculator is allowed  So that I can: restrict or allow the use of the calculator when the exam is created. | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\New\admin create exam.png** | | | |
| **Success:**   * Admin will open the adminpanel directly by typing the URL. * Admin will click enter the login credentials in the form that appears, and click on the “Login Button” * Admin will click on the “Questions” tab on the menu * Admin will click on the “Create Questions” Link * Admin will enter the details about the question * Admin will select the “Yes” radio button next to “Calculator Allowed” * Admin will click on “Create Exam” | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.11.2 Select Exam Type

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_078 | Original US  Ref |  |
| Type | New | | |
| As a :Admin with read/write access to the system  I want to :Selectthe Type of the Exam  So that I can: specify the format of the paper in terms of type. | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\New\admin create exam.png** | | | |
| **Success:**   * Admin will open the adminpanel directly bytyping the URL. * Admin will click enter the login credentials in the form that appears, and click on the “Login Button” * Admin will click on the “Questions” tab on the menu * Admin will click on the “Create Questions” Link * Admin will enter the details about the question * Admin will select correct option from the radio buttons next to “Type” * Admin will click on “Create Exam” | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.11.3 Contact Us

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_079 | Original US  Ref |  |
| Type | New | | |
| As a : Student  I want to : Contact the Company  So that I can : Give Suggestions | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\New\Contact Us.png** | | | |
| **Success:**   * Student will open the home page directly by typing the   URL.   * Student will click on the “Contact Us” link at the bottom of   the page.   * Student will be presented with the contact us page. * Student will enter his email address, telephone number,   address and the message he would like to compose.   * Student will enter the send button. * Student will get a message confirming we the admin would contact them back. | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.11.4 Students Status

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_080 | Original US  Ref |  |
| Type | New | | |
| As a :Admin with read/write access to the system  I want to : Suspend Students  So that I can: restrict the user from accessing the system without deleting their profile | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\New\admin Manage Students.png** | | | |
| **Success:**   * Admin will open the adminpanel directly bytyping the URL. * Admin will click enter the login credentials in the form that appears, and click on the “Login Button” * Admin will click on the “Students” tab on the menu * Admin will click on the “Manage Student” Link * Admin will be shown a list of details about the registered student in the format of a table. * Admin will be shown the current status of the student under the “Status’ column. * Admin will click on the “Suspend” button if the status is “Active” (Or “Re-Activate” if the status is “In-Active”). * Admin will be shown an alert with the message “Are you sure that you want to Suspend this Student?” * If the admin selects “OK” the Student account will be suspended. * If the admin selects “Cancel”, the admin will be returned to the list of details about the Registered Students. | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.11.5 Create Student

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_081 | Original US  Ref |  |
| Type | New | | |
| As a :Admin with read/write access to the system  I want to : create new Students  So that I can: register new Students into the system by entering their information | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\New\admin create profile.png** | | | |
| **Success:**   * Admin will open the admin panel directly bytyping the URL. * Admin will click enter the login credentials in the form that appears, and click on the “Login Button” * Admin will click on the “Students” tab on the menu * Admin will click on the “Create Student” Link * Admin will be shown a form with fields for the first and last names, email, phone number, address and country. * Admin will select the Course and the Level of the Student. * Admin will enter these details and click on the “Create” button. | | | |
| **Failures:**   * If the admin enters an invalid e-mail. * If the admin enters an e-mail address already having a Student account. * Network failure.   **Error Message:**   * “The e-mail you entered is invalid”. * “A Student with this email address already exists”. * “Cannot connect to the internet”. | | | |
| **Notes:**A password for the user will be auto generated when the Student profile is created  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.11.6 Add Notes when creating Student

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_082 | Original US  Ref |  |
| Type | New | | |
| As a :Admin with read/write access to the system  I want to : create new Students  So that I can: register new Students into the system by entering their information | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\New\admin create profile.png** | | | |
| **Success:**   * Admin will open the admin panel directly bytyping the URL. * Admin will click enter the login credentials in the form that appears, and click on the “Login Button” * Admin will click on the “Students” tab on the menu * Admin will click on the “Create Student” Link * Admin will be shown a form with fields for the first and last names, email, phone number, address and country. * Admin will select the Course and the Level of the Student. * Admin will enter any notes about the Student. * Admin will enter these details and click on the “Create” button. | | | |
| **Failures:**   * If the admin enters an invalid e-mail. * If the admin enters an e-mail address already having a Student account. * Network failure.   **Error Message:**   * “The e-mail you entered is invalid”. * “A Student with this email address already exists”. * “Cannot connect to the internet”. | | | |
| **Notes:**A password for the user will be auto generated when the Student profile is created.  Adding notes is optional.  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.11.7 Edit Student Profile

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_083 | Original US  Ref |  |
| Type | New | | |
| As a :Admin with read/write access to the system  I want to : edit Students  So that I can: change the details of students | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\New\admin edit profile.png** | | | |
| **Success:**   * Admin will open the admin panel directly bytyping the URL. * Admin will click enter the login credentials in the form that appears, and click on the “Login Button” * Admin will click on the “Students” tab on the menu * Admin will click on the “Manage Student” Link * Admin will be shown a list of details about the registered student in the format of a table. * Admin will click on the Edit icon () on the “Actions” column * Admin will be shown the edit profile page * Admin will change the details of the Student * Admin will click on the “Save” button | | | |
| **Failures:**   * If the admin enters an invalid e-mail. * If the admin enters an e-mail address already having a Student account. * Network failure.   **Error Message:**   * “The e-mail you entered is invalid”. * “A Student with this email address already exists”. * “Cannot connect to the internet”. | | | |
| **Notes:**A password for the user will be auto generated when the Student profile is created  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.11.8 View Unanswered Questions

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_084 | Original US  Ref |  |
| Type | New | | |
| As a : Registered student  I want to : view unanswered questions  So that I can : can refer to those questions, and pay attention to those questions | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\New\view unanswered questions.png** | | | |
| **Success:**   * Registered Student will open the home page directly bytyping the URL. * Registered Student will click on the “Exams” link on the menu. * Registered Student will be shown the available courses as tabs. * Registered Student will see the available exams for each level under each tab. * Registered Student will choose a particular exam on a particular level and click on its image * Registered Student will be directed to the page showing the single view of each exam * Registered Student will see an image of the exam along with the exam title, exam description, exam price and exam time. * Registered Student will be presented with a “Take Exam” button. * Registered Student will click on the “Take Exam” button to start the exam. * Registered Student will be shown the questions. * Registered Student will click on the “view un-answered questions” link on the bottom next to the “End Exam” button. * Registered Student will be shown a list of the question numbers of all the un-answered questions. | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.11.9 Exam Instructions

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_085 | Original US  Ref |  |
| Type | New | | |
| As a : Registered student  I want to : view exam instructions  So that I can :get a clear understanding how to answer the questions before taking the exam. | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\New\Instructions.png** | | | |
| **Success:**   * Registered Student will open the home page directly bytyping the URL. * Registered Student will click on the “Exams” link on the menu. * Registered Student will be shown the available courses as tabs. * Registered Student will see the available exams for each level under each tab. * Registered Student will choose a particular exam on a particular level and click on its image * Registered Student will be directed to the page showing the single view of each exam * Registered Student will see an image of the exam along with the exam title, exam description, exam price and exam time. * Registered Student will be presented with a “Take Exam” button. * Registered Student will be shown the appropriate instructions for the particular exam. | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.11.10 Go to Question

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_086 | Original US  Ref |  |
| Type | New | | |
| As a : Registered student  I want to : go to a question  So that I can : jump to any particular question, in order to attempt it or check it. | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\New\view unanswered questions.png** | | | |
| **Success:**   * Registered Student will open the home page directly bytyping the URL. * Registered Student will click on the “Exams” link on the menu. * Registered Student will be shown the available courses as tabs. * Registered Student will see the available exams for each level under each tab. * Registered Student will choose a particular exam on a particular level and click on its image * Registered Student will be directed to the page showing the single view of each exam * Registered Student will see an image of the exam along with the exam title, exam description, exam price and exam time. * Registered Student will be presented with a “Take Exam” button. * Registered Student will click on the “Take Exam” button to start the exam. * Registered Student will be shown the questions. * Registered Student will select the question that he want to go to, from the drop-down box next to “Go To” * Registered Student will be shown the selected question. | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.11.11 Tables & Formulae

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_087 | Original US  Ref |  |
| Type | New | | |
| As a : Registered student  I want to :view tables and formulae  So that I can : access, and use the tables and formulae that has been allowed to be used on the particular exam. | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\New\tables and formulae.png** | | | |
| **Success:**   * Registered Student will open the home page directly bytyping the URL. * Registered Student will click on the “Exams” link on the menu. * Registered Student will be shown the available courses as tabs. * Registered Student will see the available exams for each level under each tab. * Registered Student will choose a particular exam on a particular level and click on its image * Registered Student will be directed to the page showing the single view of each exam * Registered Student will see an image of the exam along with the exam title, exam description, exam price and exam time. * Registered Student will be presented with a “Take Exam” button. * Registered Student will click on the “Take Exam” button to start the exam. * Registered Student will be shown the questions. * Registered Student will click on the “Tables & Formulae” button on the bottom left corner of the exam window. * Registered student will be shown the Tables and Formulae in the form of an image. | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.11.12 Upload Single Answer Questions

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_088 | Original US  Ref |  |
| Type | New | | |
| As a :Admin with read/write access to the system  I want to : upload single answer questions  So that I can: create directly enter may questions at once. | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\New\create short writ answ q.png** | | | |
| **Success:**   * Admin will open the adminpanel directly bytyping the URL. * Admin will click enter the login credentials in the form that appears, and click on the “Login Button” * Admin will click on the “Questions” tab on the menu * Admin will click on the “Upload Single Answer Questions” Link * Admin will click on “Browse” * Admin will select the file to be uploaded. * Admin will Click on the “Upload Button”. | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.11.13 Upload Multiple Answer Questions

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_089 | Original US  Ref |  |
| Type | New | | |
| As a :Admin with read/write access to the system  I want to : upload ultiple answer questions  So that I can: create directly enter may questions at once. | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\New\create multiple answ q.png** | | | |
| **Success:**   * Admin will open the admin panel directly bytyping the URL. * Admin will click enter the login credentials in the form that appears, and click on the “Login Button” * Admin will click on the “Questions” tab on the menu * Admin will click on the “Upload Multiple Answer Questions” Link * Admin will click on “Browse” * Admin will select the file to be uploaded. * Admin will Click on the “Upload Button”. | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.11.14 Upload Short Written Answer Questions

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_090 | Original US  Ref |  |
| Type | New | | |
| As a :Admin with read/write access to the system  I want to : upload short written answer questions  So that I can: create directly enter may questions at once. | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\New\create single answ q.png** | | | |
| **Success:**   * Admin will open the admin panel directly bytyping the URL. * Admin will click enter the login credentials in the form that appears, and click on the “Login Button” * Admin will click on the “Questions” tab on the menu * Admin will click on the “Upload Short Written Answer Questions” Link * Admin will click on “Browse” * Admin will select the file to be uploaded. * Admin will Click on the “Upload Button”. | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.11.15 Upload Multiple Choice Answer Questions

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_091 | Original US  Ref |  |
| Type | New | | |
| As a :Admin with read/write access to the system  I want to : upload multiple choice answer questions  So that I can: create directly enter may questions at once. | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\New\create multiple choice answ q.png** | | | |
| **Success:**   * Admin will open the admin panel directly bytyping the URL. * Admin will click enter the login credentials in the form that appears, and click on the “Login Button” * Admin will click on the “Questions” tab on the menu * Admin will click on the “Upload Multiple choice Answer Questions” Link * Admin will click on “Browse” * Admin will select the file to be uploaded. * Admin will Click on the “Upload Button”. | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.11.16 View Available Exams

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_092 | Original US  Ref |  |
| Type | New | | |
| As a : Registered student  I want to : View the Available Examsin his course and Level  So that I can : Choose an exam and take it. | | | |
| **User Interface:**  C:\Users\melakaa\Desktop\Top Cima\New\view exams.png | | | |
| **Success:**   * Registered Student will open the home page directly by   typing the URL.   * Registered Student will click on the “Exams” link on the menu. * Registered Student will see the available exams belonging to the course and level, that the student is registered for. | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.11.17 View Sample papers

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_093 | Original US  Ref |  |
| Type | New | | |
| As a :Un-Registered student/Registered Student  I want to :View the sample papers that are offered.  So that I can : Choose an exam and view the sample. | | | |
| **User Interface:**  C:\Users\melakaa\Desktop\Top Cima\New\view sample papers.png | | | |
| **Success:**   * Student will open the home page directly by   typing the URL.   * Student will click on the “Exams” link on the menu. * Student will be shown the available courses as tabs. * Registered Student will see the available exams belonging to all the courses and all the levels. | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.11.18 Exclude Question from the Dynamically Generated Exam

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_094 | Original US  Ref |  |
| Type | New | | |
| As a :Admin with read/write access to the system  I want to :have an option to exclude a question from the dynamically generated papers  So that I can : Make those questions appear more on the other types of papers. | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\New\create exam exclude.png** | | | |
| **Success:**   * Admin will open the adminpanel directly bytyping the URL. * Admin will click enter the login credentials in the form that appears, and click on the “Login Button” * Admin will click on the “Questions” tab on the menu * Admin will click on the “Create Single Answer Question” Link * Admin will select the course from the drop down box next to “Course” * Admin will select the level from the drop down box next to “Level” * Admin will select the Subject Area from the drop down next to “Subject Area”. * Admin will select the type of question from the drop down menu next to “Type” as “Single Answer Question” * Admin will design the question in the format that is required, using the question design interface. * Admin will enter four answer options * Admin will enter the correct answer * Admin will select the checkbox saying **Exclude Question from Question Bank Exam”** * Admin will click on the “Create” button | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.11.19 Show Exams Taken In Student Profile

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_095 | Original US  Ref |  |
| Type | New | | |
| As a : Registered Student  I want to : View my details about the exams taken  So that I can :Have an analysis of my history in the course | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\New\exams taken in profile.png** | | | |
| **Success:**   * Registered Student will open the home page directly by   typing the URL.   * Registered Student will click on the link with his/her name   at the top right hand corner of the page.   * Registered Student will be presented with the “My Profile”   page where he/she can access “Account Settings”   * Registered Student Will click on the “Past Exam Summary” tab * Registered Student will be shown a list of the exams that the student has taken. | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.11.20 Show Exam Details in Student Profile

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_096 | Original US  Ref |  |
| Type | New | | |
| As a : Registered Student  I want to : View my details about the exams taken in detail  So that I can :see the details of my performance in the exam, such as the marks, etc. | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\New\view marks of exam in profile.png** | | | |
| **Success:**   * Registered Student will open the home page directly by   typing the URL.   * Registered Student will click on the link with his/her name   at the top right hand corner of the page.   * Registered Student will be presented with the “My Profile”   page where he/she can access “Account Settings”   * Registered Student Will click on the “Past Exam Summary” tab * Registered Student will be shown a list of the exams that the student has taken. * Registered Student will choose a particular exam, and click on the “View In Detail” link. | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.11.21 Activity Log

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_097 | Original US  Ref |  |
| Type | New | | |
| As a :Admin  I want to : View an activity log  So that I can :get notifications on major events in the functionalities of the system | | | |
|  | | | |
| **Success:**   * Admin will open the admin panel directly bytyping the URL. * Admin will click enter the login credentials in the form that appears, and click on the “Login Button” * Admin will click on the “Activity Log” | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.11.22 Google Analytics

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_097 | Original US  Ref |  |
| Type | New | | |
| As a :Admin  I want to : View statistics about the site  So that I can :get view statistics on the static pages of the application. | | | |
|  | | | |
| **Success:**   * Admin will open the admin panel directly bytyping the URL. * Admin will click enter the login credentials in the form that appears, and click on the “Login Button” * Admin will click on the “Statistics” | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.11.23 Add Mark for question

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_098 | Original US  Ref |  |
| Type | New | | |
| As a :Admin with read/write access to the system  I want to :enter the number of marks  So that I can : give different marks for each question. | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\New\create exam exclude.png** | | | |
| **Success:**   * Admin will open the admin panel directly by typing the URL. * Admin will click enter the login credentials in the form that appears, and click on the “Login Button” * Admin will click on the “Questions” tab on the menu * Admin will click on the “Create Single Answer Question” Link * Admin will select the course from the drop down box next to “Course” * Admin will select the level from the drop down box next to “Level” * Admin will select the Subject Area from the drop down next to “Subject Area”. * Admin will select the type of question from the drop down menu next to “Type” as “Single Answer Question” * Admin will design the question in the format that is required, using the question design interface. * Admin will enter four answer options * Admin will enter the correct answer * Admin will enter the number of marks * Admin will click on the “Create” button | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 

### 3.11.24 Add sitting of student upon creation

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_099 | Original US  Ref |  |
| Type | New | | |
| As a :Admin with read/write access to the system  I want to :enter the exam sitting of the student  So that I can : for future filtrations. | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\New\admin create profile.png** | | | |
| **Success:**   * Admin will open the admin panel directly bytyping the URL. * Admin will click enter the login credentials in the form that appears, and click on the “Login Button” * Admin will click on the “Students” tab on the menu * Admin will click on the “Create Student” Link * Admin will be shown a form with fields for the first and last names, email, phone number, address and country. * Admin will select the Course and the Level of the Student. * Admin will enter the sitting of the student. * Admin will enter these details and click on the “Create” button. | | | |
| **Failures:**   * If the admin enters an invalid e-mail. * If the admin enters an e-mail address already having a Student account. * Network failure.   **Error Message:**   * “The e-mail you entered is invalid”. * “A Student with this email address already exists”. * “Cannot connect to the internet”. | | | |
| **Notes:**A password for the user will be auto generated when the Student profile is created.  Adding notes is optional.  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.11.25 View Available Exams (Admin)

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_100 | Original US  Ref |  |
| Type | New | | |
| As a :Admin with read/write access to the system  I want to : view the available exams  So that I can: view their details, and change them if necessary | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\admin View Exams.png** | | | |
| **Success:**   * Admin will open the admin panel directly by typing the URL. * Admin will click enter the login credentials in the form that appears, and click on the “Login Button” * Admin will click on the “Exams” tab on the menu * Admin will click on the “View Exams” Link * Admin will be shown the details of all the Exams | | | |
| **Failures:**   * If the admin enters an incorrect username or password. * Network failure.   **Error Message:**   * “The Password or Username entered is incorrect”. * “Cannot connect to the internet”. | | | |
| **Notes:**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.11.26 View Question Number

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_101 | Original US  Ref |  |
| Type | New | | |
| As a : Registered student  I want to : view question number  So that I can : which question I am currently attempting. | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\New\view unanswered questions.png** | | | |
| **Success:**   * Registered Student will open the home page directly bytyping the URL. * Registered Student will click on the “Exams” link on the menu. * Registered Student will be shown the available courses as tabs. * Registered Student will see the available exams for each level under each tab. * Registered Student will choose a particular exam on a particular level and click on its image * Registered Student will be directed to the page showing the single view of each exam * Registered Student will see an image of the exam along with the exam title, exam description, exam price and exam time. * Registered Student will be presented with a “Take Exam” button. * Registered Student will click on the “Take Exam” button to start the exam. * Registered Student will be shown the questions. * Registered Student will be shown the question number on the top right corner of the screen. * Registered Student will be shown the selected question. | | | |
| **Failures:**   * Network failure.   **Error Message:**   * “Cannot connect to the internet”. | | | |
| **Notes:**  **Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

### 3.11.27 Add Multiple Exams to Lecturer

|  |  |  |  |
| --- | --- | --- | --- |
| US Ref | US\_102 | Original US  Ref |  |
| Type | New | | |
| As a :Admin with read/write access to the system  I want to : Add exams to lecturer  So that I can: register assign more than one exam per lecturer | | | |
| **User Interface:**  **C:\Users\melakaa\Desktop\Top Cima\admin create lecturer.png** | | | |
| **Success:**   * Admin will open the adminpanel directly bytyping the URL. * Admin will click enter the login credentials in the form that appears, and click on the “Login Button” * Admin will click on the “Exams” tab on the menu * Admin will click on the “Create Exam” Link * Admin will be shown a form which contains areas for the admin to enter the details about the Lecturer * Admin will enter the details in the text boxes * Admin will select an exam by going through the course and level * Admin will click on add to add the exam * The added exams are shown to the admin * Admin will click on the “Create” button. | | | |
| **Failures:**   * If the admin enters an invalid e-mail. * If the admin enters an e-mail that is already in use. * Network failure.   **Error Message:**   * “The entered e-mail is invalid”. * “The entered e-mail is already in use”. * “Cannot connect to the internet”. | | | |
| **Notes: Alternatives:** | | | |
| **Acceptance Criteria:** | | | |

# 4. Non-Functional Requirements

## 4.1 Security

### 4.1.1Data Transfer

* The system shall use secure sockets in all transactions that includeany confidential Student information.
* The system shall automatically log out all Studentafter a periodof inactivity.
* The system shall confirm all transactions with the Student’s webbrowser.
* The system shall not leave any cookies on the Student’s computercontaining the user’s password.
* The system shall not leave any cookies on the Student’s computercontaining any of the user’s confidential information.

### 4.1.2Data Storage

* The Student’s web browser shall never display a customer’spassword. It shall always be echoed with special charactersrepresenting typed characters.
* The Student’s web browser shall never display a customer’s creditcard number after retrieving from the database. It shall always beshown with just the last 4 digits of the credit card number.
* The system’s back-end servers shall never display a Student’s password. The customer’s password may be reset but never shown.
* The system’s back-end servers shall only be accessible toauthenticated administrators.
* The system’s back-end databases shall be encrypted.

## 4.2 Performance

* The product shall be based on web and has to be run from a webserver.

**We think the application can be hosted in a cloud server. Please advise whether AWS is suitable to host this. Please develop the application supporting the auto scaling facility of AWS.Alrite. We will discuss on this.**

* The product shall take initial load time depending on internetconnection strength which also depends on the media from whichthe product is run.
* The performance shall depend upon hardware components of theclient/customer.

## 4.3 Usability

* This application shall provide a uniform look and feel between all theweb pages.
* This application shall provide a digital image for each product in theproduct catalog.
* This application shall provide use of icons and logos.

# 5. Interfaces

There are many types of interfaces as such supported by this systemnamely; User Interface, Software Interface and Hardware Interface.

* The protocol used shall be HTTP.
* The Port number used will be 80.
* There shall be logical address of the system in IPv4 format.

## 5.1 User Interfaces

The user interface for the software shall be compatible to any browsersuch as Internet Explorer 8 and above, Mozilla Firefox, Netscape Navigator, GoogleChrome, etc. by which user can access to the application.

## 5.2 Hardware Interfaces

Since the application must run over the internet, all the hardware shallrequire to connect internet will be hardware interface for the system. Asfor e.g. Modem, WAN – LAN, Ethernet Cross-Cable.

## 5.3 Software Interfaces

1. This application shall communicate with the content manager toget the exam specifications, offerings and availabilities.
2. This application shall communicate with payment gatewaysystem to identify available payment methods, validate thepayments and process payment.

## 5.4 Communication Interfaces

This application shall use the HTTP protocol for communication over theinternet like any other web based application.

**How do you handle if students get disconnected from the server while doing exams?**

**We need to discuss on this, since the communication is stateless, in the backend we cannot see if the user gets disconnected. It is up to your business model. We can let the student do the exam again, or we can mark the exam with a score of zero. It is up to you.**

**The Exam will be marked as completed. The student will come and contact the admin, and he can choose either to give the same paper, or a different one.**