

**Information Processes & Technology**

Major Project Portfolio

Phase 1 - Interim Release Report

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# **Introduction**

This report documents the details of the Phase 1 Interim Release for the SPX Physics Online System.

Included in this report are:

* Products being delivered in this release
  + Description in detail about each feature of the product being released
* Physical Design decisions
  + such as Database Schema diagrams
* Phase 1 Testing Plan
  + Documenting the Tests and Expected and Actual Results
* Phase 1 Testing Feedback Report
  + Summarization of the key outcomes of the testing and the impact on the product for Phase 2 or Final Release of the Product

# 

# **Phase 1 - Interim Release Report**

## **Interim Product Details**

The product has been installed and available in the SPX Testing environment -

http://spx-webtest-01/2022/YAST03/SPXPhysicsOnline\_IPTMajor/Deliverable1/

The following features have been included in this release:

* *Website infrastructure setup*
* *Database Infrastructure (for users)*
* *The website will include:*
  + *Information Guide*
  + *Home Page With Links to Information*
  + *Navigation Bar to all features released in this release*
  + *Advanced Mechanics Projectile Motion Topic*
    - *Projectile Motion Information Page*
    - *Projectile Motion Gallery Page*
    - *Projectile Motion Video Page*
  + *Advanced Mechanics Circular Motion Topic*
    - *Circular Motion Information Page*
    - *Circular Motion Gallery Page*
    - *Circular Motion Video Page*
  + *A “Coming Soon” Page for all pages that will be released in release Phase #2*

### **1. Website Structure**

* The basic website will be created using HTML/CSS/PHP/JAVASCRIPT and MySQL DBMS.
* The following menu and submenu items will be included in the navbar and on the home page:
  + Home (Goes to home page)
  + Projectile Motion (Opens Submenu)
    - Text Info (Goes to Text Info on Projectile Motion)
    - Image Gallery (Goes to Image Gallery on Projectile Motion)
    - Video (Goes to Video On Projectile Motion)
  + Circular Motion (Opens Submenu)
    - Text Info (Goes to Text Info on Circular Motion)
    - Image Gallery (Goes to Image Gallery on Circular Motion)
    - Video (Goes to Video On Circular Motion)
  + Motion In Gravity (Opens Submenu)
    - Text Info (Goes to Text Info on Motion in Gravitational Fields)
    - Image Gallery (Goes to Image Motion in Gravitational Fields)
    - Video (Goes to Video On Motion in Gravitational Fields)
  + Summary (Opens Submenu)
    - Quiz (Goes to Summary Quiz)
    - Video (Goes to Summary Video)
  + Logout (Logs user out to login page)
* The website supports the purpose of the system, by allowing students to quickly and easily access content in the topic area of HSC Physics Advanced Mechanics. This website allows users to view information in multiple locations and devices and has been made responsive for smaller screens such as mobile phones.

### **2. Login Page**

* This page will allow users to login to the website.
* Multimedia Elements included here are
  + Text Information.
* The Login Page supports the purpose of the system as it makes it a “allowing students to locate the information on the Physics topic they wish to study” (1)

### **3. Home Page**

* This page will contain information about the website.
* Multimedia Elements included here are
  + Text.
  + Hyperlinks.
* The Home Page supports the purpose of the system by “allowing students to locate the information on the Physics topic they wish to study” (2)

### **4. Projectile Motion Text Information Page**

* This page will contain information about the Projectile Motion.
* Multimedia Elements included here are
  + Text.
* The Home Page supports the purpose of the system by “allowing students to study Projectile Motion” (4)

### **5. Projectile Motion Image Gallery Page**

* This page will contain information about the Projectile Motion.
* Multimedia Elements included here are
  + Images.
  + Text Information
* The Home Page supports the purpose of the system by “allowing students to study Projectile Motion” (4)

### **6. Projectile Motion Video Page**

* This page will contain information about the Projectile Motion.
* Multimedia Elements included here are
  + Video.
* The Home Page supports the purpose of the system by “allowing students to study Projectile Motion” (4)

### **7. Circular Motion Text Information Page**

* This page will contain information about the Projectile Motion.
* Multimedia Elements included here are
  + Text.
* The Home Page supports the purpose of the system by “allowing students to study Circular Motion” (5)

### **8. Circular Motion Image Gallery Page**

* This page will contain information about the Projectile Motion.
* Multimedia Elements included here are
  + Images.
  + Text.
* The Home Page supports the purpose of the system by “allowing students to study Circular Motion” (5)

### **9. Circular Motion Video Page**

* This page will contain information about the Projectile Motion.
* Multimedia Elements included here are
  + Video.
* The Home Page supports the purpose of the system by “allowing students to study Circular Motion” (5)

### **10. Coming Soon Page**

* This page will contain information signaling to the user that .
* Multimedia Elements included here are
  + Text.
  + Image.
  + Animation.
* The Home Page supports the purpose of the system by “allowing students to locate the information on the Physics topic they wish to study” (1)

### 

### **Database Schema / File Design**

Below us the Data Dictionary for the single “users” Entity, and DB Schema Diagram.

Users Table Data Dictionary:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Data item** | **Data type** | **Format** | **Number of**  **bytes**  **required**  **for storage** | **Size for**  **display** | **Description** | **Example** |
| userName (PK) | Varchar | PK | 12 | 12 | Primary Key (a unique identifier for each student in the table) | 1 |
| password | Varchar | N/A | 255 | 255 | The user’s password | Sjn$3wr |
| firstName | Varchar | N/A | 25 | 25 | The user’s First Name | Charlie |
| lastName | Varchar | N/A | 25 | 25 | The user’s Last Name | Chaplin |
| role | Varchar | N/A | 10 | 10 | The user’s Role | student |

**SPX Physics Online Database Schema**

Diagram, table

Description automatically generated

### **Site Map**

The product has been installed and available in the SPX Testing environment –

http://spx-webtest-01/2022/YAST03/SPXPhysicsOnline\_IPTMajor/Deliverable1/

Graphical user interface

Description automatically generated

## **Interim Testing**

The following is a copy of the Test plan that will be issued to each System Tester.

### **Increment 1 Test Plan**

Here is a test plan – including test plans .

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  | **Actual Results** | |
| **Test #** | **Feature to be tested** | **Action Taken / Data Used** | **Reason For Test** | **Expected Results** | **As Expected,** | **Comments** |
| 1.1 | Website | Start up with URL:  http://spx-webtest-01/2022/YAST03/SPXPhysicsOnline/Deliverable1/System | Check link is not broken | Login Page is displayed | Y | Links Working Fine |
| 1.2 | Home Page | Check Content | Check that all content appears correctly – images appear, text is consistent | Content all appears without broken links | Y |  |
| 1.2 |  | Check Format of page | Check format is consistent and user friendly | All format appears correct - content in logical places and readable | Y |  |
| 2.1 | Quiz | Answering quiz questions | Check that quiz allows answers to be entered - answering is not mandatory, will just result in null mark | Radio Buttons will only select one answer | Y |  |
| 2.2 | Quiz | Submit Quiz button pressed | Check the Answers are being marked correctly | * Answers processed, * total of correct answers displayed, * correct answers given for correct responses | Y |  |
| 2.3 | Quiz | Enter the following answers:  A  C  B D  D  A  D  B  A  D | Check all correct questions | All correct | Y | Quiz Working Fine |
| 2.4 | Quiz | Enter the following answers:  A  C  D C  D  A  C  B  A  A | Check Some Answers correct | A correct  C incorrect  D incorrect C incorrect  D correct  A correct  C incorrect  B correct  A correct  D incorrect | Y | Quiz Working Fine |
| 2.5 | Quiz | Enter the following answers:  B  D  C D  C  B  A  A  B  B | Check All incorrect Answers | All incorrect | Y | Quiz Working Fine |
| 2.6 | Quiz | Enter the following answers:  NULL  D  C D  NULL  B  A  NULL  B  B | Check Null Answers | incorrect  D correct  C correct D correct  incorrect  B correct  A correct  incorrect  B correct  B correct | Y | Quiz Working Fine |
| 3.1 | Information Guides | All links in home page navigate to required pages | Check Links | Navigates to required pages | Y | Links Working Fine |
| 3.2 | Information Guides | All links in navbar navigate to required pages | Check Links | Navigates to required pages | Y | Links Working Fine |
| 4.1 | Test each Multimedia Element |  | Check Multimedia Elements Work |  | Y |  |
| 4.1.1 | YouTube links | Click to start Video |  | Video starts | Y |  |
| 4.1.2 | You Tube Links | Click to stop video |  | Video Stops | Y |  |
| 4.1.3 | Gallery Images | Click to open Modal |  | Modal Opens | Y |  |
| 4.1.4 | Gallery Images | Click to Change Modal |  | Modal Changes | Y |  |
| 4.1.5 | Gallery Images | Click to Close Modal |  | Modal Closes | Y |  |
| 4.1.5.1 | Galley Images | Correct Modal Image is shown |  | Modal Image Changes | Y |  |
| 4.1.5.1 | Gallery Images | Correct Modal Text is shown |  | Modal Text Changes | Y |  |
| 5.0 | Social & Ethical Issues | View Nav bars on each page except for login page | Navigation consistent on each page |  | Y |  |
| 5.1 |  | Each page contains a Site Banner and heading for each page except for login page | Page Layouts consistent on each page |  | Y |  |
| 5.2 |  | Each element clearly explained | Content appropriately explained |  | Y |  |
| 5.3 |  | Links and credit for unoriginal content | Credit given to non-original content |  | Y |  |
| 5.4 |  | Screen Designs Align | Screen designs align |  | Y |  |
| 5.5 |  | Appropriate Use of white space | Check a good amount of white space |  | Y |  |
| 6.1 | Header | Header Starts Twinkle | Check Header Stars Twinkle |  | Y | Header starts twinkle (twinkle is hard to see) |
| 7 | Responsive | All Pages are fully responsive | Check All Pages are fully responsive |  | Y | (fully responsive website) |

### **Phase 1 Testing Feedback**

Testing of the system identified the following areas that need to be addressed in our second iteration.

#### **Issues Summary**

|  |  |  |
| --- | --- | --- |
| **Screen / Function** | **Description** | **Priority** |
| Login Front End | Login Screen CSS does not update when auto filled username and password. | Moderate Priority |
| Star Twinkle | Star Twinkle in Header is hard to see, possibly make them bigger. | Low Priority |
| Dropdown Navbar Width | Dropdown Navbar Width does not align with Dropdown button. Need to make them all the same width. E.g. 170px. | Moderate Priority |
| Spelling Mistakes on Multiple Pages | Fix the Spelling mistakes on pages for better website. | Urgent Fix |
| Login Buttons | The “Submit and reset buttons have slightly different colours”, to increase judicious use of colour, change it back | Low Priority |

#### **Phase 1 - General Feedback Comments**

Include any comments provided by testers that do not relate specifically to one of the formal test steps.

|  |
| --- |
| I like the test quiz and the vast amount of content:  Some things to consider include:   * appropriate white space used * the content pages and the gallery are both visual pleasing * use of color very good * social and ethical issues appropriately addressed * The navigation was very pleasing and pleased me very much * Its very good how the whole website is completely responsive * Too much content on the Motion on Gravitational Fields Text Info Page. |