This is to certify that

**Mr./Ms:** MUNKH-UCHRAL ANKHNIBAYAR

Has Successfully Designed & Developed

Submitted by:

MUNKH-UCHRAL ANKHNIBAYAR

Date of Issue: …………………………………………

Authorized Signature: …………………………………………

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| Design Plan: | Document Name: Problem Definition Document | SWD/Form No.1 |
| Effective Date: | Version: 1 | Page No: |

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| **Problem Definition of UNIVERSAL STATIONARY**  Developer team understands the clients need. It must be easy to use, lot of information of products and be stylish that attracts visitor eyes.  There are problems in product information that it is too lot and there will few bugs and delay of processing the database of products. In prototype there are almost 100 product information.  Solution to this problem is product information must be understandable, a few string values but it is clients choice.  UNIVERSAL STATIONARY provides multiple brand products. On homepage there are first 12 products preview.  On products web page all of brand products displays on the body. If visitor is in hurry then visitor can download the product information by document file. Visitor can search for desired product and it is automatically categorizes products by type and display on the body. Visitor can categorize product by brand or type.  Visitor can be member to UNIVERSAL STATIONARY.  Member can add advertisements on Website. |

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|  | Prepared by Munkh-Uchral | Approved By Batbayar |
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| Design Plan: | Document Name: CRS/Customer Acceptance Criteria | SWD/Form No. 2B |
| Effective Date: | Version: 1 | Page No. |

**Client/Project Undertaken:**

1. **List of Inputs to the Website**
   1. Register form (Username text, Password text, E-mail text, Submit button)
   2. Log in form(Username text, Password text, Submit button, Register button)
   3. Compare form(Product ID text, Compare button)
   4. Search(text value, search button)
   5. Advertisement can be user choice for advertising your own products and sell it. All input contents will be stored in server as an array.
2. **List of Outputs Expected from the Website**
   1. Register form(Success message, Error message)
   2. Log in form(Success message, Error message)
   3. Categorized products (Brands, Types)
   4. Contact us
   5. View link on categorized products is a output, a bigger information about selected products
   6. When user adds advertisement, webpage will automatically transfers to advertisement section.
3. **Overview of Processes Involved in the Website**
   1. Register form takes from visitor Username , Password and E-mail and plants it on array and alerts output success message.
   2. Log in form takes from user Username and Password and verifies it if it is on already registered array and if true alerts output success message or false alerts output error message.
   3. Search form takes from visitor product type as a text and verifies it if it is on products array outputs a products that matches the input text on homepage.
   4. Compare form takes from visitor a first product ID to be compared with the other product ID. By ID, javascript function easily finds the integer values from products array and finds it integer values and compares 2 products. Last output is odd from process between 2 products integer values.
   5. Homepage automatically onloads products from products array.
   6. Flash slideshows will be automatically onloads on every web pages. Flash moves are in 1 folder in web page server. File location Flash/\_\_.swf , Flash/\_\_.fla
   7. Products can be download on .docx file by visitor. File location Download/\_\_\_.docx
   8. User can view more details of selected products. It creates table like information and description.
   9. When user adds advertisement their contents will be stored in an array and page automatically transfer web page to advertisement section in the menu.
4. **Hardware and Software Required for Implementing the Project**
   1. Adobe Flash Player(latest)
   2. Mozilla Firefox/Google Chrome/Opera
   3. 64 Megabytes of RAM or better

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| Design Plan: | Document Name: CRS/Customer Acceptance Criteria | SWD/Form No. 2B |
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| **Si. No** | **Customer’s Acceptance Criteria** |
| 1. | Browsers:  🡪Mozilla Firefox  🡪Google Chrome  🡪Opera |
| 2. | Adobe Flash Player(latest) |

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| Design Plan: | Document Name: Project Plan | SWD/Form No. 3 |
| Effective Date: | Version: 1 | Page No. |

Project Plan

1. **Project Details**

* **Name of the Client: Aptech eProject team**
* **Date of Project Plan:**
* **Project Vision/Objectives:**

1. The Home Page should be created making use of Frames with a suitable logo.
2. Home Page should contain details of different Stationary items with suitable images.
3. The site should display a menu which will contain the options for brief introduction about the various stationary items available, location of the shop and any other information if required.
4. The information should be categorized according to the brand names of the products like if a User wants to see only “STAPLES” products or any other companies products then he/she can click on a Link/button/menu etc and can see only that Brand products.
5. When a user selects any particular brand, a list of products for that brand will be displayed
6. A brief summary of features of individual products should be displayed on the Web Page along with the product but detailed Features should be stored in Individual Word documents which can be downloaded or viewed by the User who wishes to see the same.
7. The user should also be able to compare the various products of different as well as similar brands.
8. There should be a “Contact Us” page which will have the Address of the Company which is as follows and the mail address which when clicked will invoke the local mail client from where they can send an email.

* **Scope**
  + Website is designed for people who interested in home furniture and business advertisement from furniture companies.
* **Our Understanding of the Client Organization**
  + Client wanted a logo, menus, shortcuts to products, compare between products, more information website( individual brand products all in one place) and easy to use website not making confusion to the visitor.
* **Project Organization with Responsibilities and Authorities**
  + **Munkh-Uchral – Team leader, Analyzer, Developer, Architecture, Designer**
    - Leading the team members and giving them objectives, testing and analyzing the finished code, making architectural designs and developing webpage javascript codes.
  + **Tsogtbayar – Secondary team leader, Developer, Designer, Tester**
    - Leads team when primary leader is not around. Developing css and javascript codes on webpages, testing finished codes on browsers and designing webpage(focused on css design) .
  + **Tuvshinbayar – Developer, Tester**
    - Developing webpage sub directories and main directories css and javascript codes.
  + **Munkh-Saruul – Designer, Tester**
    - Designing webpage images, colors, flash moves and information gathering.

1. **Project Initiation/Requirement Documents**
   1. Client can add own business advertisements. All visitors can see added advertisements.
2. **Deliverables**
   1. **Related ‘CSS’ files.**

**Css/**

* + 1. Body.css
    2. Css.css
    3. Index.css
    4. Image-slideshow.css
    5. Footer.css
  1. **Related ‘Javascript’ files.**

**Js/**

* + 1. Data.js
    2. Index.js
    3. Image-slideshow.js
  1. **Related ‘Flash’ files.**

**Flash/**

* + 1. Site.fla
    2. Site.swf
  1. **Related Images(.png , .jpg , .gif).**

**Images/**

* + 1. Arrow\_left.gif
    2. Arrow\_left\_over.gif
    3. Arrow\_right.gif
    4. Arrow\_right\_over.gif
    5. Logo2.jpg
    6. Images1.jpg … … … …
    7. Facebook.png
    8. Myspace.png
    9. Linkedin.png
    10. Twitter.png
    11. Titlelogo.png
  1. **Index related HTML pages**
     1. **AboutUs.html**
     2. **Advertisement.html**
     3. **Broyhill.html**
     4. **ContactUs.html**
     5. **Drexel\_Heritage.html**
     6. **Henredon.html**
     7. **Hickory.html**
     8. **HT add product.html**
     9. **HT buy.html**
     10. **HT member.html**
     11. **HT use website.html**
     12. **La\_Barge.html**
     13. **Lane\_Venture.html**
     14. **Licensing.html**
     15. **Maitland-Smith.html**
     16. **Pearson.html**
     17. **SS elist.html**
     18. **Thomasville.html**

1. **Project Dependencies**
   1. Our teammates talked on about improving the website and we added login/register form, advertisement section, add advertisement by logged in user, flash player advertisements of brands and slideshows
   2. Log in and register form is for business plans. Visitor can register to the Website can advertise their own furniture products to the visitors.
   3. Advertisement section is full user designed section. All advertisements are added from user and administrator maintains the server. What to write in advertisement section is users choice but there must title, description and image(optional). If user don’t know how to add their own advertisement then they can download or view ‘**How to use UNIVERSAL STATIONARY. User manual**’ document.
   4. Flash player is also advertisement but only administrator/developer can add Flash advertisement.
   5. Slideshow is full of images if the visitors designs their home or office what will it be like. Future prediction images.
2. **Major Project Milestones**
   1. **Prototype is created using parts of our architectural design web pages.  
      Below diagram is main prototype of UNIVERSAL STATIONARY**

Links

Logo

Header

Flash

Type Menu

Body Div1

Marquee

Slide Show

Body

Body Div2

Product

Login

Body Div3

Compare

Footer

\\\

Links

Flash

1. **Quality Plan**

* **Review Activities**
* **Testing Activities**
  1. We have tested parts of our website apart from the prototype website (like: Log in form first created on nonrelated html page) and checking if it is working we added to the prototype. Then we tested prototype on all browsers looking if there is any bugs.

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| Design Plan: | Document Name: GUI Standards Document | SWD/Form No. 4 |
| Effective Date: | Version: 1 | Page No. |

**Form Design**

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| Property | Value |
| Form Theme and Color Scheme | Sun like orange fusion of 2 CSS colors |
| Form -Background Color | White |
| Title -Font Size | 12px and 13px |
| Title –Font Color | Black |
| Title –Font Style | Bold |
| Title –Alignment | Left |
| Background Color of Controls on the Form | White #FFFFFF |
| Foreground Color of Controls on the Form |  |

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| Design Plan: | Document Name: Inter face Design Document | SWD/Form No. 5 |
| Effective Date: | Version: 1 | Page No. |

1.**List of Forms to be Created**

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| Form Name | Description | Controls on the Form |
| Search | Searching for products type that matches user search keyword | Have permission to look from products array. |
| Register | Visitor can register and be a member at the website. | Putting registered usernames, passwords and e-mails on array. |
| Log in | An already registered visitor can log into website by his own username and password. | Getting permission to add advertisements on the web server. |
| Compare | Comparing 2 products information and displaying the odd integers | Getting information from an array user defined product ID. |
| Add advertisement | Logged in user can add advertisement into the website | Title, Description, Image are added to the website. |

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| Design Plan: | Document Name: Process Design Document | SWD/Form No. 7 |
| Effective Date: | Version: 1 | Page No. |

1. **Process Name**Search
2. **Process Description and Details**Webpage will display search text and getting the user keyword value it will look for product type that matches user keyword. If it is found it will display all products by founded type.  
   Below diagram is process of Search.

Search Key Word

Search

If statement on search keyword if it matches product array

Error message

All results of Type that contains the key-word

1. **Process Name**

Register

1. **Process Description and Details**Any visitor can be a member to the website. To be member visitor must click the button register on log in form. Type in Username, Password and E-mail . It will store your information on an array.  
   Below diagram is process of Register

Display Registration

User’s information (username, password, password re-type, e-mail)

User exists with same user?

Error Message

Success Message

Display Login

1. **Process Name**Login
2. **Process Description and Details**If the visitor had already registered then the visitor can log in to the website. To login visitor must enter registered username and password to login. Webpage will automatically verifies your input and outputs an alert message.  
   Below diagram is process of Login

User

Input  
Username, Password

False:  
Error message

User database

Home page

Verify

True:  
Success message

User logged  
Home page

1. **Process Name**

Download

1. **Process Description and Details**

Visitor can download product details by word document.  
Below diagram is process of Download

User

Product

Download link

Downloading .docx file

End

1. **Process Name**Compare
2. **Process Description and Details**Comparing is displaying odd numbers of the input product ids integer values. It gives us more useful tool if you stuck in 2 choices of products. User can compare to products and gets information which is more better and which is worse.

User input

Product 2 ID

Product 1 ID

**Compare**

Product 1 attributes

Product 2 attributes

Results of Compare

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| Design Plan: | Document Name: Coding Standards Document | SWD/Form No. 8 |
| Effective Date: | Version: 1 | Page No. |

1. Programming Standards
   1. HTML
   2. CSS6, CSS3
   3. Javascript
   4. Flash object
2. Standards for Code Writing Style
3. Standards for Declaring Variables
   1. Javascript
4. Standards for Function Declarations
   1. Javascript
5. Other Standards
   1. Adobe Flash Professional CS6

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| Design Plan: | Document Name: Task Sheet | SWD/Form No. 9 |
| Effective Date: | Version: 1 | Page No. |

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| **Project Ref.** | **Project Title: UNIVERSAL STATIONARY** | **Activity Plan Prepared By:** | | **Date of Preparation of Activity Plan:** | | |
| **Task Sub division** | **Description** | **Planned Start Date** | **Actual Date** | **Actual Days** | **Team Mate Names** | **Status** |
| 1. | Architecture design, database ,flash move, worked together with teammate Tsogtbayar on javacript functions of register login and categorization | 04/04/2013 | 04/04/2013 | 10 | Munkh-Uchral -- Tsogtbayar | There were no bugs on main body |
| 2. | Products design, login, register, compare and categorization completed in 1 day | 04/04/2013 | 05/04/2013 | 21 | Tsogtbayar | Login and register didn’t work fully. Problems were array. |
| 3. | Main menu and type menu , slideshow javascript function and footer design | 04/04/2013 | 05/04/2013 | 7 | Tuvshinbayar | There were no problems. |
| 4. | Information gathering, all images design, logo. | 04/04/2013 | 06/04/2013 | 5 | Munkh-Saruul |  |

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| Test Document: | Document Name: Testing Document | SWD/Fesorm No. 10 |
| Effective Date: | Version: 1 | Page No. |

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| **SI.No.** | **Features Tested** | **Remarks** |
| 1. | Home page designs | Tested on all browsers and fully worked on Firefox, Chrome and Opera |
| 2. | Flash | Flash Player added 1 sec delay when loading website |
| 3. | Search | Search worked by putting only product type. |
| 4. | Menus & Footer | They worked perfectly |
| 5. | Log in & Register | Didn’t find the solution to creating static array on login and register |
| 6. | Products, Brands categorization | Categorization also worked perfectly |
| 7. | Final remarks: | All Testing except login and register fully worked |

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| Review Report: | Document Name: Project Review | SWD/Form No. 11 |
| Effective Date: | Version: 1 | Page No. |

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| **Date:** | **Project Plan Activity/Milestone** | **Work Specification** | **Status of the Activity** | **Remarks** | **Responsibility** |
| 04 \ 04 | We made design of website | Changes our design | We created architecture design | Everything is better than our imagine | Easy to user uses this. |
| 04\05 | We tried to make well designed logo | Logos weren’t to the idea. | We changed our logo, 3 times | We chose the best logo that we created | Suitable logo |
| 04\06 | We made menus that categorizes all products by brand, | Menus had problem with css codes. | We tried to make css menus that works perfectly | Css menus could be well designed in our opinion | Menus must have Home page, Contact us, Products, and Brands links |
| 04\06 – 04\10 | The second menu that categorizes by product type | Type also had problems with css. | Type menu css menu problems also interfered with the main menu. | Css menu problems were fixed by changing the id name and directory of css file | Type menu must be well designed like Main menu. |
| 04\10 – 04\13 | Footer and body designs must be made. | Architectural problems with body | We first created body architectural designs by setting div position to be absolute and it costed us a lot of time. | Architectural problems solved by setting div position to relative, setting 3 different div columns on body and footer was made by table. | Body width and height must be automatic for javascript code. |
| 04\13 - 04\15 | Flash moves, Slideshow, marquee and example products must be made. | At first we didn’t know how to import flash moves into webpage also had few slideshow javascript bugs on sliding. | Flash moves were created by using Adobe Flash Player CS6.  Gathered example images for products and slideshow. | On solution to import flash moves into webpage is to open flash with notepad and copy commands into the html codes. | Flash moves, slideshow and marquee advertises brand products by endless loop. |
| 04\15 – 04\20 | Gathering brand product information creating javascript functions that automatically categorizes products and compare section | There were only problems with how to declare database like javascript array. | Brand products information easily gathered by entering their own brand website. | Database like javascript Array solved by creating new object Array and putting information into it easily helped us to create categorizing function. Compare section also created only by taking odd numbers from 2 products integer values | Categorizing must be fast and flexible. Compare mustn’t have any bugs it must be true. |
| 04\20 – 04\25 | Login, register and advertisement sections | There were problems user adding information into the array and making it static. | We easily figured out on making temporary array but not static array | We didn’t find the solution to this problem and adding advertisement worked only making temporary array. | Login, register and advertisement section must be user added information and static. |

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| Test Document: | Document Name: Final Checklist | SWD/Form No. 12 |
| Effective Date: | Version: 1 | Page No. |

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| **SI.No** | **Functionality tested** | **Suggestion/Remarks** |
| 1. | Have all the web pages been properly linked and are they completely functional? | Yes, all links are working as planned. |
| 2. | Does each web page meet its objective and purpose?  Are all the validations happening as specified in Process Design? | Yes. Its working great. |
| 3. | Have all Design and Coding standards been followed and implemented? | Yes. |
| 4. | Is the GUI design consistent all over? | Yes it is designed perfectly |
| 5. | Does the Website’s functionality resolve the client problem, and satisfy his needs completely? | Yes, all client need is completed |
| 6. | Have the hardware and software been correctly chosen? | Yes, there is no other software or hardware to access website. |
| 7. | Additional features and utilities that give value addition to the entire project? | Website some dependencies that we haven’t learned yet are not working as planned. |

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