

Final Term Assignment
Human Computer Interaction

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Question 1:

Answer

Following are some of the issues of the chair

- **Adjustability**- The chair cannot be adjusted in different angles.
- **Seat height range** - the seat height cannot be adjusted to the height recommended for the worker(s) who will use it.
- **Backrest** - the backrest is not adjustable and will fail to provide support in both backward and frontward direction.
- **Seat surface** – The seat surface is not comfortable.
- **Armrests** – armrests are not provided and cannot support the arms of the user.

Question 2:

Paradigm are Predominant theoretical frameworks or scientific world views it is also a is a distinct set of concepts or thought patterns, including theories, research methods, postulates, and standards for what constitutes legitimate contributions to a field.

Paradigm Shift

A paradigm shift is a major change in the concepts and practices of how something works or is accomplished. A paradigm shift can happen within a wide variety of contexts. They very often happen when new technology is introduced that radically alters the production process of a good or service.

Example

The internet created a paradigm shift in the way business is conducted. Email and scan replaced the fax machine and courier services. Orders for securities can now be placed directly by the client via the Internet and are sometimes executed in seconds.

Question3:

A design rationale is the explicit listing of decisions made during a design process, and the reasons why those decisions were made. It is to support designers by providing a mean to record and communicate the argumentation and reasoning behind the design process.

Types of design rationale

Rationale can be classified into several types. These types are not mutually exclusive and some systems may support multiple types of rationales.

- **Argumentation based** - the design rationale is primarily used to represent the arguments that define a design. These arguments consist of issues raised, alternative responses to these issues, and arguments for and against each alternative.
- **History-based** - the rationale consists of the design history – the sequence of events that occurred while performing the design. This information can be stored in many forms. It could be in the form of entries in a design notebook, an archive of e-mail messages, or other types of documents that capture actions taken over time.
- **Device-based** - a model of the device itself is used to both obtain and present rationale. The explanations of the design would be produced by using the model to simulate the behavior of the device. It would be possible for the user to view the model and ask questions about its design and behavior.
- **Process-based** - the DR capture is integrated into the design process itself which guides the format of the rationale, the design description is modified only by changes to and refinements of the design objectives, thus capturing the rationale as part of the design process.
- **Active document-based** - the DR is pre-generated and stored in the system. In these systems, the designer creates the design and the DR system generates the rationale for it based on the system's stored knowledge. For each decision made, the system compares the decision made by the user with the decision that it would have made based in its knowledge. If the actions of the user conflict with the system

recommendations, they are given the option of changing their decision or modifying some of the criteria.

Question 4:

Good web page that illustrates the principle of consistency.



<https://www.yahoo.com/>

Yahoo is one of the pioneers in the top 10 most popular websites in 2017 rating. It is the oldest and second most visited search engine on the web. The site was founded in January 1994 by Jerry yang and David Filo, electrical engineering graduate students from Stanford University. They created a website, named “Jerry and David’s Guide to the World Wide Web”.

Apart from its globally recognized web portal, search engine Yahoo! Search, the site provides a lot of services, including Yahoo! Directory, Yahoo! Mail, Yahoo! News, Yahoo! Finance, Yahoo! Groups, Yahoo! Answers, advertising, online mapping, video sharing, etc. There are 700 million active monthly users on Yahoo. However, in the era of Google and Facebook, the website is facing difficulties to make its positions in the list.

When it comes to stats, the site is ranked number 6th globally and, in the US., with a substantial number of visitors coming from India, Taiwan, Indonesia, and Brazil.

Bad web page that illustrates the principle of consistency

Top brand of Gate Openers and Operators, Elite, Viking, DoorKing, Power Master, Ramset, FAAC, Apollo, SEA. We are also manufacturer of Custom gates in Aluminum, Iron, Steel our Ornamental gates are second to none. For your Driveway automatic electric gates entrance we offer a full line of Access control equipment, telephone entry systems, intercom, keypad and gate accessories and safety devices, loop detector, safety loop, photo cell. Offering complete Custom decorative fencing matching designs and style. 100% of fence pictures to choose, pocket fence, deck, pool, garden, estate, modern, we have it all at great prices.

Welcome To: Gates N Fences
 L.A. Ornamental Corp
 3708 N.W. 82nd Street
 Miami, Florida 33147
 Phone: 305-696-0419
LAOrnamental@aol.com

Designed to Enhance the Entry of your home with Custom Ornamental Decorative Driveway Gates while bringing Safety, Security and convenience.

Home
 Driveway Gates
 Modern Driveway Gate
 Custom Driveway Gate
 Privacy Driveway Gate
 Garden Gates
 Modern Garden Gates
 Privacy Garden Gates
 Fencing
 Fencing ?
 Railings
 Modern Balcony Railings
 Openers - Operators
 Ramset
 FAAC
 Apollo
 BFT
 Power Master
 Aluminum Gate Opener

Welding Expertise

Top Brands of Gate Openers and Operators, Commercial, Residential, Industrial, Swing, Slide, Rack & Pinion, Barrier

- BFT Gate Openers
- PowerMaster Gate Openers
- Eagle Gate Operators
- Elite Gate Operators
- Ramset Gate Operators
- DoorKing Gate Operators
- Viking Gate Operators
- OSCO Linear Gate Openers

All of our Aluminum or Wrought Iron Gates, or Fences are designed and manufactured to withstand a range of outdoor conditions. Our commitment to our customers and dedication to produce quality gates has earned us thousands of satisfied customers.

Although we offer a wide selection of Ornamental Designs or Decorative Designs, we can design and manufacture any style in aluminum or wrought iron metals. L. A. Ornamental & Rack Corp also offers Fences, Garden or Walk Thru Gates to match your driveway gates. With over thirty five years of experience in manufacturing and designing elegant, custom, or wrought Aluminum Driveway Gates and Fences, our past and future customers can have peace of mind that they are receiving quality workmanship. We are a Fence Company that gives our customers 100% of dedication to manufacture quality driveway gates and fences. For a quote please send an e-mail to LAOrnamental@aol.com

If your looking For Privacy with your Driveway Gates, Garden Gates, or Walk Thru Gates, we offer a Solid Backing with your choice of Aluminum, Steel, Plexiglas or Plastic. All solid backing are offered in many different colors to choose from. [Privacy Gates](#)

We offer a large selection of Gate Openers and Gate Operators for Residential Driveway Gates, Light or Heavy Commercial Gates, or Industrial locations. If your not sure the style or size of the Gate opener / gate operator you need, please e-mail or contact us so we can gladly help guide you to the correct choice. We offer all type of Gate Openers / Gate Operator, Sliding Gate Openers / Gate Operator, Swing Gate Openers / Gate Operator, Hydraulic Gate Openers / Gate Operator. We also have a wide selection of replacement [Main Circuit Boards](#) for all brands, and [Remote Controls](#) for Visors or Keychains.

Railings - L.A. Ornamental Rack Corp offers top quality Balcony Railings, Front Porch Railings, Deck Railings in Metal, Aluminum, or Wrought Iron Steel. We offer rails for residential or commercial locations for either Interior or Exterior locations. We also offer Custom Made Railings, Decorative Railings, or HandRails that are powder coated paint for low maintenance and long last Balcony Rails, Porch Rails, or Deck Rails

Garden Gates or Walk Gates can be designed to match any existing or ordered driveway gate. Customers can choose between wrought iron or aluminum as material and choose from our wide selection of powder coated colors. Garden or Walk Gates are custom made that can give your home that special and elegant look.

<http://www.gatesnfences.com/>

This Florida-based company might have a site design that's stuck in the past, but they've also decided that the best way to encourage user engagement is to completely bombard them with information on the homepage. A few small, low quality images are scattered throughout the page, but nothing to break up the large amount of text.

Question 5:

Following are the 8 golden rules of Schneider man

- 1. Strive for Consistency-** Designing "consistent interfaces" means using the same design patterns and the same sequences of actions for similar situations. This includes, but isn't limited to, the right use of color, typography and terminology in prompt screens, commands, and menus throughout your user journey.
- 2. Enable Frequent Users to Use Shortcuts-** Speaking of using UI rules as shortcuts, your users will benefit from shortcuts as well, especially if they need to complete the same tasks often. Expert users might find the following features helpful:
 - Abbreviations
 - Function keys
 - Hidden commands
 - Macro facilities
- 3. Offer Informative Feedback-** You need to keep your users informed of what is happening at every stage of their process. This feedback needs to be meaningful, relevant, clear, and fit the context.
- 4. Design Dialog to Yield Closure-** Let me explain. Sequences of actions need to have a beginning, middle and end. Once a task is completed, give some peace of

mind to your user by providing them informative feedback and well-defined options for the next step if that's the case. Don't keep them wondering!

5. **Offer Simple Error Handling-** A good interface should be designed to avoid errors as much as possible. But when errors do happen, your system needs to make it easy for the user to understand the issue and know how to solve it. Simple ways to handle errors include displaying clear error notifications along with descriptive hints to solve the problem.
6. **Permit Easy Reversal of Actions-** It's an instant relief to find that "undo" option after a mistake is made. Your users will feel less anxious and more likely to explore options if they know there's an easy way to reverse any accidents.
7. **Support Internal Locus of Control-** It's important to give control and freedom to your users so they're able to feel they're in charge of the system, not the other way round. Avoid surprises, interruptions, or anything that hasn't be prompted by the users.
8. **Reduce Short-Term Memory Load-** Our attention span is limited and anything we can do to make our users' job easier, the better. It's simpler for us to recognize information rather than recall it. Here, we can refer to one of Nielsen's principles describing "recognition over recall. If we keep our interfaces simple and consistent, obeying to patterns, standards and conventions, we are already contributing to better recognition and ease of use.

Question 6:

Internet explorer has supported its user from a very long time and was one of the first browsing software in the history. There are five different usability goals of internet explorer which are as follow

- **Effectiveness**—It supports users in completing actions accurately.
- **Example-** when a user searches anything on the internet explorer it completes its search in seconds while giving a large number of options.
- **Efficiency**—Users can perform tasks quickly through the easiest process.
- **Example-** The user can easily search anything on the default google search bar.
- **Engagement**—Users find it pleasant to use and appropriate for its industry/topic.
- **Example-** The user can engage with others while using its own profile or web page and can use it for digital marketing and online businesses.
- **Error Tolerance**—It supports a range of user actions and only shows an error in genuine erroneous situations. You achieve this by finding out the number, type and severity of common errors users make, as well as how easily users can recover from those errors.

- **Example-** The server rarely gives any errors and only after the user types anything wrong and gives suggestions to the user so that he/she can continue their work.
- **Ease of Learning**—New users can accomplish goals easily and even more easily on future visits.
- **Example-** the explorer is easy to use it has straight forward commands and can be used by beginners very easily. The user only has to type in the search bar and can program any command they want.