UI/UX Analysis On Website Development Of Narcotics Police In Jakarta The Capital City

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ABSTRACTS

Website police investigation is a web who provided information for the general public. The success of users website one seen from ease user when interact with a User Interface (UI) with the website. At the moment the state of investigation website police do not have percangan model User Experience (UX) to support ease in interact with UI. To meet UI and all feature that is observed with either by inspectors unit to meet all the features are observed by supervisors of the unit requires a watchful eye, Caused there are features that made it difficult for them for a unit do updates sp2hp data. The data reinforced after the questionnaire using a Likert scale to evaluate the percentage of users generate 47.4% that is indicative of the website could be classified as category into ordinary course . In the first questionnaire attached in the appendix of research, and is known from the questionnaire to make websites need to do further analysis.

In terms of view website , visitors not really know features sp2hp very essence as information suspects .This information intended for the general public especially the suspects to know is the extent to which the case the arrest warrant suspected drug. Then done testing using testing using analysis conceptual model has previously in analysis in a tcsd (Task Centered System Design).Task Centered System design (TCSD) is a method in Human Computer Interaction (HCI) using to identify user's task. TCSD consiste of 4 phase: identification, requirement, design as scenario, and walktrough evaluation. Result by identification will be using as the basis of designing an interface.

After analyzed used calculation UI / UX success implemented method TCSD (Task Centered System Design) and testing improvement website detective drugs city police in terms of a User Interface and User Experience produce value of 64,7% larger website long is as much as 41,8%. This prove that website the recommendation more easy to use by the user common namely the public own or internal users the police officers.

Keywords: User Interface, User Experience, Methods UI / UX, Task Center Systen Design

1. INTRODUCTION

To meet all the website features well monitored by the watchdog unit requires close supervision, as there are some features that make it difficult to update the data SP2HP unit [2]. Data strengthened after doing questionnaires to users who generate a percentage evaluation by 41.8% which indicates a level less satisfied users of the website in the first questionnaire attached in annex study, the level of error greater than the evaluation that is by 58.2% which known from the questionnaire to make the website needs to be done further analysis [3]. In terms of appearance website, visitors are less aware SP2HP features very essence as suspect information. This information is intended for the general public, especially the suspect's family to know the extent to which the arrest warrant stage drug suspects cases. So that this research was conducted to find out the percentage of User Experience and User Interface by performing the assessment using the testing done after the user solve all tasks given [7]. For it at this research using task centered design one in which a method of covering 4 stage , namely identification , reqirement , design us scenario and walktrough evaluation [8]. Therefore in this study using Task Centered Design as the analysis stage to acceptance of the User Interface and User Experience Website Detective Polda Metro Jaya.

2. BASE ON THEORY

2.1 Story Board

Storyboard describes some of the pictures that are arranged to depict the flow of steps that describe the functionality of the website to the user.

2.2 Conceptual of Models

Konseptual model merupakan pendefinisian dari aplikasi yang yang digunakan untuk mendeskripsikan desain dari desainer ke *user* untuk menetapkan konsep dari website yang akan dibuat. Dan pemodelan yang digunakan merupakan alat untuk pemahaman desain dari sistem yang dibangun.

2.3 Digital Prototyping

Conceptual model is a definition of the application that is used to describe the design from the designer to the user to define the concept of the website to be

created. And modeling used a tool for understanding the design of the system built.

2.4 Skala Likert

Likert scale is a measure of the questionnaire used to measure opinions, attitudes and perceptions of each personal or social group of symptoms that occur.

3. ANALYSIS AND DESIGN

3.1 Identification of Users and Tasks

User identification and task aims to determine the actors involved in running applications. Generally have five users, each user has a different facility. Application user specifications are as follows:

1. administrator

Administrators are users who have the right to manage the admin page of the website.

2. Subdit

Subdit is SP2HP users (Notice of Development of Investigation) that the task of input data to be communicated to the suspect's family about the update process status of the suspect.

3. Supervisory Unit

Supervisory Unit has access rights to monitor the performance of parts of Sub-Directorate, supervised the performance of Sub-Directorate based on the data of suspects who enter and process the suspect in accordance with their status.

4. Head

Checking S2HP part in the system and the reports provided by the supervisory unit of the status of the suspect.

5. Visitors

Visitors of the suspect's family, the community or the audiences who visit the website drug detectives to obtain all information about drug detective.

3.2 TCD (Task Centered Design)

Here is a groove Task Centered Design:

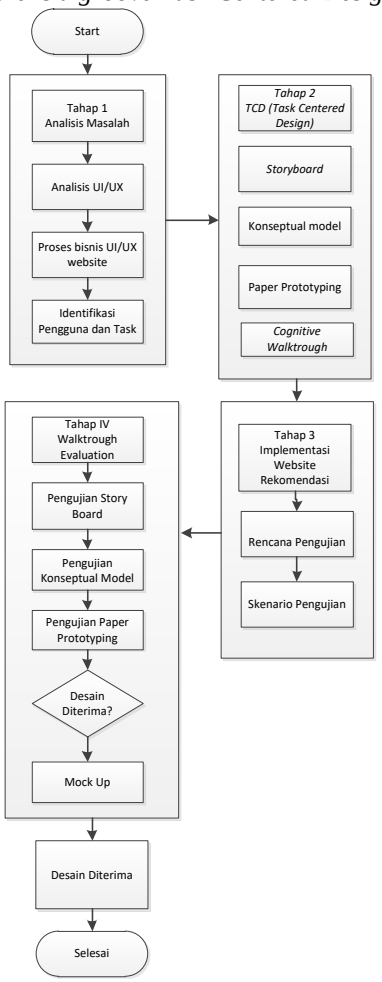


Figure 1 Alur Perancangan TCD (Task Centered Design)

3.2.1 Analysis Of Story Board

Storyboarded flow of digital prototyping that can be demonstrated as follows:



Figure 1 Story Board Of User

3.2.2 Conceptual Of Models

The conceptual model is created based on the previous stage storyboard. Conceptual models can help authors to further design the website in the form of a digital prototype. The use of terms such as abbreviations on conceptual models associated with the ability SP2HP persona persona 1 and 2 which have the ability pemahan different, even has a different perception, and understood only by certain people. The results of the analysis of conceptual models, there are seven (7) tasks conceptually described with respective functionality.

3.2.3 Digital Protoryping

Formed page layouts as web pages based on the structure of web pages used that drug detectives website Polda Metro Jaya. The page structure designed website includes Logo, Menu Navigation, Content, Information about the drug suspects presented in SP2HP website. Results of Digital Prototyping, after the creation of design using digital prototyping, testing the user's satisfaction using a Likert scale generating value 48.4%. That means the level of satisfaction in the category of mediocre.

3.5 Cognitive Waltrough

Analisis dilakukan untuk melihat langkah-langkah pengujian task yang dikerjaan oleh pengguna, dapat dilihat sebagai berikut :

Table 1 Cognitive Walktrough

No.	*Task Step (Tasks Step)*	*Knowledge, confidence and motivation*	*Solution*
1	*Login* (*enter user*name)	*Low Motivation*	*Form supplied hard to see.* *solution: Giving form to form dropdown selection without having to type the username.*
2	*Login* (*Enter password*)	*Low Motivation*	*Often forgotten passwords.* *solution: Providing location forgotten passwords.*
3	*Login* (choose *login*)	*Low motivation, Low Knowledge*	*Less understood and low willingness to login. solution: Indonesian change the terms to be understood.*
4	*Entrace to web utama*	*Low motivation*	*Rarely do the checking data in the main admin page by page. solution: Created main menu direct view display admin page.*
5	*Entrance to SP2HP*	*Low Motivation*	*Rarely do SP2HP information updates. solution: Award date (today) on the field pengirisian database for monitoring the data by whom and how much time filling date data.*

4. IMPLEMENTATION OF UI/UX

4.1 Walktrough Evaluation

The test is used to determine the testing recommendations made is divided into several scenarios. As seen below.

Table 2 Table Analysis Walktrough Evaluation

Features	*Explanation*
Bahasa	*Using language that is easily understood and understandable by the user. As in SP2HP which stands understood by part of the national police, but now disertkan stands for so it is easy to understand society.*
Display	*Display style possessed one page, enabling users to open website and enjoy all the features easily and quickly.*

Features	*Explanation*
Favourite	*There is a menu SP2HP used as feature information to the public on the state of tersangaka. It is useful for the public to know the suspect and the suspect's family can also learn the process of running the criminal being caught.*
Help	*There is a feature of the documentation used to determine how to use the website for internal users can directly open the admin page.*
Keyboard	*Users can use the keyboard to make it easier to use the website and page admin.*
Improvement	*Improvement in terms of UI will make an impression on the community and attract users so it is excellent for the user comfortable in using a website that has something to do about UX.*
Colors	*Color using bootstrap CSS design materials that look unsightly and make the experience that makes it easy for visitors and users.*
Icon	*Icon used adapted to the use of the logo on resnarkoba Polda Metro Jaya.*
Layout	*The layout is easily understood by visitors and administrators, because it has a good UI for mobile and desktop responsiveness, face navigari layout can be minimized so as not to obstruct the show features the full content.*
Navigation	*Navigation can be hidden and located at the top left corner making it easier for users to know the navigation menu on the website.*
Features	*Features SP2HP is the flagship feature is its appearance to be displayed on the main page of the website resnarkoba Polda Metro Jaya.*
User manual	*User manual is a user admin page and officers who can be easily managed.*
History	*There are events and activities that are related to all activities of Polda Metro Jaya.*
Slider	*Slide more smooth for easy visual users and visitors who visit the website.*
Responsive	*Website created mobile responsive user experience given today many use the mobile for browsing through the internet and it is very easy for users.*

4.2 Story Board Testing

Testing process sequence storyboarded illustrates the major functional website that will diimplentasikan recommendations as digital protoryping interface. Here is a story board implementation of website recommendations made sesaui with the analysis that has been done before:

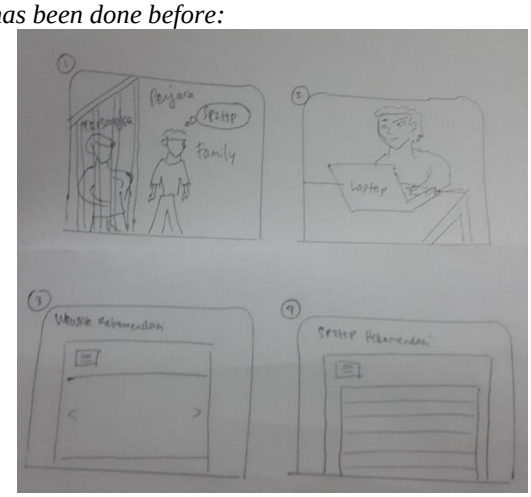


Figure* 4. 1 *Story Board Recommendation

From the analysis previously found that more groove than the recommendation, with fewer flow does not reduce the functionality of the website and will facilitate the user comfortable when using the website to obtain information and admin in data processing.

4.3 User Satisfaction

Collected questionnaire data processing calculation of each of the 10 respondents, yielding the following data [3]:

Table 4. 1 Data Questionnaire results

Respondens	SS	S	BS	KS	TS
1	4	2	1	2	1
2	3	2	2	1	2
3	1	3	3	2	1
4	3	1	3	2	1
5	2	4	1	2	1
6	5	1	2	2	0
7	1	1	2	5	1
8	3	1	3	1	2
9	4	0	2	2	2
10	5	3	1	0	1

Likert scale on the test results generated 67.4%, seen from the table the following recommendations to be displayed on a range of user satisfaction as follows:

Table 4. 2 Range Level Of Satisfaction

No.	Interval	Category
1	81 – 100 %	Very Satisfied
2	61 – 81 %	Satisfied
3	41 – 60 %	Normal
4	21 – 40 %	Less Satisfied
5	0 – 20 %	Not satisfield

The results of this test gives the figure of 67.4% to the satisfaction of the users and can be demonstrated in the table that has a satisfaction score in the category 'Satisfied'. That means the testing on the latest website to be good in terms of UI / UX.

4.4 Mockup Design

Mockup design is used to determine the stage of visually based on the ideas in the development of website recommendations are supported by components are made to determine the branding to the community. So the website resnarkoba possessed special characteristics of the design mockup designed. One branding examined, ie the logo, because the logo has an strong meaning to the identity of an agency as a special feature that can be communicated to the public. Here is the logo of Resnarkoba Polda Metro Jaya:



Figure 4. 2 Figure Of Resnarkoba Logo

Resnarkoba logo image identifies the website as belonging to the Drug Investigation Division which can be described by the colors on the color Paet as follows:



Figure 4. 3 Color Pallet Of Resnarkoba Logo

Viewed from the standpoint of the web page has a texture that can be drawn as follows



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Figure 4. 4 Tekstur Halaman Website

On the website of visual detail to note are the components of writing or fonts that specify the type of font that is in accordance with EI / UX testing that has been done before. The following is the recommended font on the website using the 'dose', sans-serif [13]:

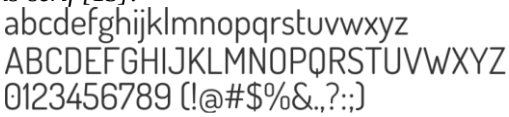


Figure 4. 5 Jenis Typeface Website

With the visual detail can then be determined using a website mockup implementations Pencil tools [14]:

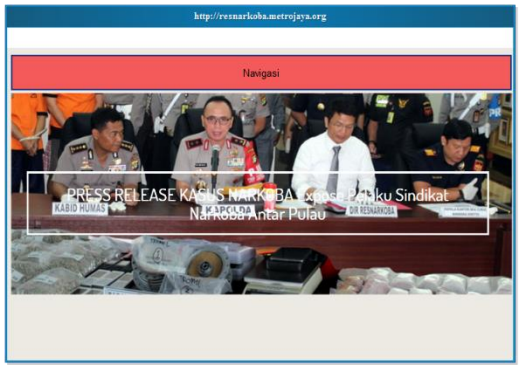


Figure 4. 6 Mockup Halaman Website Utama

After determining mockup main page, it means that the views SP2HP also located on the main page. Mockup display SP2HP following pages:

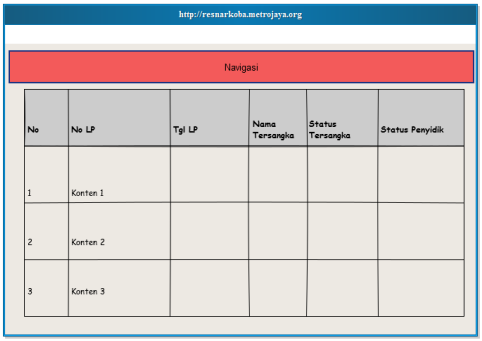


Figure 4. 7 Mockup Of SP2HP Page

Sampai pada penjelasan mockup halaman SP2HP berarti tahapan pembuatan mockup pada halaman website rekomendasi sudah selesai dilakukan, setelah itu mengimplementasikan antarmuka menggunakan desain yang diterima sesuai mockup.

4.5 Acceptance of Design

Until the explanation page mockup SP2HP means the stage mockup on the page recommendation has been completed, after which implements the interface using received appropriate design mockup.

Table 4. 3 Implementation Of Interface

Code	***Menu***	***Description***
T01	*Designing between the main website page*	*The main page of the website consists of one page, compared with ongoing website has many pages on one page using to facilitate the*

		public to get all the information on one page.
T02	*Interface design page SP2HP*	*To do inform SP2HP features, the system is running on this page is a special page and separate subdomains to the main website page. On viewing the new website this feature combined with the main page of the website to inform the public more found.*
T03	*Login interface design.*	*Testing is done to simplify admin and SP2HP main website in the login, the login page of the website that are running are two login, to SP2HP and main website. For the recommendation to use the login page to identify the different permissions.*
T04	*Interface design admin page.*	*Used to determine the flow of any permissions. Each has a functional permissions admin page to suit different needs.*

5. CONCLUSION

Conclusions from the study entitled: "Analysis of UI / UX In Website Development Police Narcotics Detective Jaya Jakarta Special Capital Region" is as follows:

1. In the calculation results UI / UX successfully implement methods TCSD (Task Centered System Design). Through the Task Center System Design method can know the needs of users on the website task Drug Investigation Division Polda Metro Jaya. As a website user task Jakarta Police Drug Investigation Division is looking at the home page, login, SP2HP features, admin features, gallery, and contact us.

2. Based on testing UI design improvements to the needs of users on the website task Resnarkoba Metro Jaya is quite appropriate to the task the user's needs. This is evidenced by the results of usability testing were performed in which the test of pretty good results (67.4%), greater than the value that is equal to the old website (47.4%). It is proved that the recommendation website is easier for the public.

6. SUGESSTION

1. Website Resnarkoba Metro Jaya apply as a news site or the public external users can log in to fill in the news so that information produced drugs more.

2. For the further development of the design of the user interface on the website Police Narcotics Detective Jaya is repeated cognitive testing walktrough by evaluators who have more experience associated with evaluators who have greater expertise (expert judgment) associated with the design of the user interface to get reusability better.

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