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# Table of Contents

<b>JaMCSIIX ID</b>	<b>Project Title</b>	<b>Page</b>
<b>JM005</b>	Ramadhan Prep: A Mobile Application in Preparing for the Bigger Season of the Year	1
<b>JM006</b>	BTF Cake Recommender and Management System by using Rule Based	5
<b>JM007</b>	ALIMS - Assets Loan and Inventory Management with SMS Notification	9
<b>JM009</b>	CRC - Clothing Review Classification using Sentiment Analysis	13
<b>JM012</b>	DEPsy Model	16
<b>JM013</b>	The Use of Computer Diagnostic Apps to Assist Computer Troubleshooting	20
<b>JM014</b>	Recent Studies of Human Limbs Rehabilitation using Mechanomyography Signal: A Survey	25
<b>JM022</b>	Plastopoll: A Serious Game to Raise Awareness About Plastic Pollution	35
<b>JM029</b>	Twitter Sentiment Analysis of Malaysian Fast Food Restaurant Chains: A Novel Approach to Understand Customer Perception using Naïve Bayes	40
<b>JM030</b>	ARTventure: Learning Malay Traditional Dance Through Augmented Reality	44
<b>JM031</b>	ExpenseEase - Living Expenses Management Mobile Application	48
<b>JM032</b>	Drowsiness Detection and Alert System Using Face Recognition with Raspberry Pi	53
<b>JM033</b>	Web Application of Facial Emotion Recognition in Classroom Learning Environment with Raspberry Pi4	58
<b>JM035</b>	Development of mobile app: Funeral services system (FSS)	63
<b>JM036</b>	Development of Mobile App: Digital Mutawwif	68
<b>JM037</b>	Assessment Mark Management System: An Excel VBA Approach	72

<b>JM038</b>	Design and Fabrication of a Potato Peeling Machine	77
<b>JM040</b>	Donatenow: A Crowdsourcing-Based Mobile Application with Geolocation and Content-Based Filtering Algorithm	82
<b>JM041</b>	TextCrunch: An Interactive Text Mining Application	88
<b>JM047</b>	Innovative Video on Compound Interest	93
<b>JM049</b>	Forecasting Inflation Rate in Malaysia Using Artificial Neural Network (ANN) Approach	98
<b>JM050</b>	Factors Affecting the House Price Among Kuala Lumpur, Selangor and Johor	102
<b>JM054</b>	A Framework of Procurement Analytics for Fraud Coalition Prediction	106
<b>JM055</b>	Abstract Exploring Classical Chinese Poetry with AI Tool in PPT Design	111
<b>JM056</b>	Developing Emergency Application for LRT Passengers with Decision Tree Algorithm (RailAlert!)	115
<b>JM057</b>	LetsGoFit Unlocked: Revolutionizing Wellness with Gamified Mobile Health	119
<b>JM059</b>	Sheep Tracker via Radio Frequency Identification (RFID) System	123
<b>JM060</b>	Developing an Application for Handyman Services Platform using Geofencing and Content-Based Filtering (Handy2Help)	128
<b>JM061</b>	Modeling Cases of Stunting Toddler in Indonesia using the Conway Maxwell Poisson Regression Method	133
<b>JM063</b>	Clustering Regencies/Cities in Central Sulawesi Province Based on Poverty Level Using the Average Linkage Method with Principal Component Analysis (PCA)	138
<b>JM064</b>	An application for Vehicle Rental Service Advertising using Geofence with Content-Based Filtering (ReadyVehicle)	142
<b>JM066</b>	Horticulture Land: Guide to Being A Plantsman Through Green Game	146



<b>JM067</b>	IMFLOODVR: An Immersive Virtual Reality Serious Game for Flood Risk Mitigation Awareness	149
<b>JM068</b>	Tomoe: Topic Modelling Web Application	153
<b>JM071</b>	Forecasting the Number of Schistosomiasis Cases (Snail Fever) in Napu, Central Sulawesi, Using the Auto Regressive Integrated Moving Average (ARIMA) Method	158
<b>JM074</b>	Forecasting the Open Unemployment Rate in Central Sulawesi Province using the Auto Regressive Integrated Moving Average (ARIMA) Method	162
<b>JM075</b>	Pre-parent Test Based on Web Application in Assessing Readiness to Become a Parent	166
<b>JM076</b>	The Development of Edu-Fertiblox Digital Game using Roblox as ABM in the Topic of Fertigation Systems for the Subject of Design and Technology Level 1	170
<b>JM077</b>	SPARK: Simplified Practices, Analogies, and Resources for Knowing C++ Functions	177
<b>JM078</b>	PLC-Based Water Filling Machine Simulator for Teaching and Learning Activities	180
<b>JM079</b>	Hana's Map	185
<b>JM081</b>	Futech.Edu (Future Technology Education): Teaching and Learning Application Design in the Society 5.0 Era	189
<b>JM082</b>	Checkers Match Game	193
<b>JM084</b>	Gamification in English for Report Writing: Engaging Learning Through Webinars	198
<b>JM085</b>	Iffah's Busy Board (IBB)	203
<b>JM086</b>	3R Bag	207
<b>JM087</b>	'Chick VS Virus', A Game-Based Learning Approach in Teaching Students	210

# Pre-parent Test Based on Web Application in Assessing Readiness to Become a Parent

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**Abstract**—A preliminary study to assess the level of readiness to be a parent is discussed in here. We developed a web application for pre-parent test based on a 40-item measure from a clinician's literature review. This test is also to assesses parenting styles which consist of three main styles: authoritarian, permissive, and democratic. This test will help adults find out their readiness before becoming parents and do self-introspection to change parenting style in the future.

**Keywords**— *Pre-Parent Test, web, adult, parenting style.*

## I. INTRODUCTION

The quality of human resources can be achieved by providing solutions to children's growth and development problems in Indonesia. The results of the basic health research report (2013) show that 37 percent of Indonesian children experience delays in growth and development caused by the low socio-economic level of society, poor parental care, and the need for women and men to become parents [1].

Fathers and mothers should fulfill their children's needs which include parenting, religion, psychology, eating, drinking and so on (Puspitawati, 2013)[2]. The quality of care provided by the mother as the main caregiver plays an important role in the child's growth and development (Hastuti, Fiernanti & Guhardja, 2011). Therefore, a pre-parent test is the right solution for prospective parents to prepare themselves to become parents who can support their child's growth and development optimally [3].

This study focuses on developing a pre-parent test-based web application to assess parental readiness and parenting style. The items or statements measured were selected from the clinician's literature review.

## II. MATERIALS

The pre-parent test is a website created using Visual Studio Code (VSC) software with Java script, CSS, and HTML as programming languages. Visual Studio Code is an open source application for editing code designed by Microsoft and compatible with Windows, Limec and MacOS operating systems. This application provides convenience in writing code for various types of programming, such as C++, C, Java, Python, PHP, GO. VSC also has a feature that allows automatic recognition of programming languages and provides different color highlighting according to the function in the code [4].

Here, statements to measure the level of readiness to become parents and their parenting style are collected from various clinical literature. Some examples of statements are as follows:

1. I have experience or knowledge related to childcare [5].
2. Children should have freedom to choose and do things that are agreed upon with good two-way communicatoon between parents [14].
3. Children must reach the standards set by parents [17].
4. Parents are capable of understanding the hidden meanings behind their children's words [10].
5. I am aware that how I educate a child will determine the child's success as a parent [15].

### III. METHODS

According to Anas Sudijono (2008), the group distribution is a distribution with varying intervals of values. Therefore, the values need to be grouped based on their interval characteristics. Each group has the same class length using the following formula [4].

$$R = NT - NR,$$

where:

$R$  : Range,

$NT$  : Highest Value,

$NR$ : Lowest Value.

Furthermore, the formula for finding the length of the class/interval is given by

$$i = \frac{R}{K},$$

where:

$i$  : Class/interval length,

$R$ : Range,

$K$  : Number of classes.

In this study, we divided the process into two main goals: measuring parental readiness and predicting future parenting styles. The development process of pre-parent test can be seen in the block diagram shown in Fig. 1.

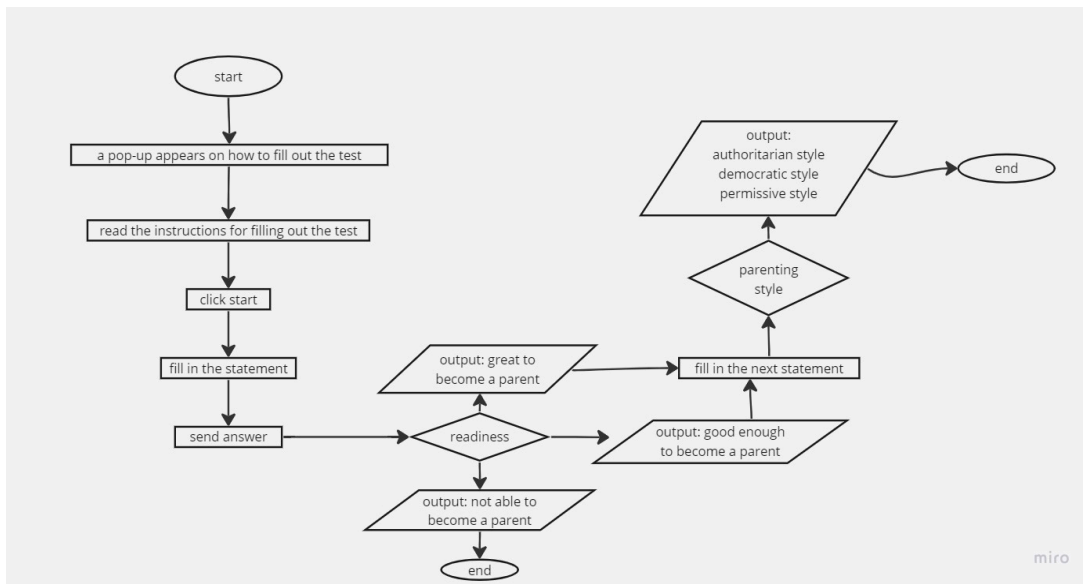


Fig. 1. Block diagram of the pre-parent test.

### IV. RESULTS AND FINDINGS

The pre-parent test-based web application can be seen on <https://preparenttest.xyz/> Fig. 2 shows the website user interface and its workflow. In the first stage there are 28 statements that must be filled in. After sending answer to each statement, the result will appear that represent the readiness to become a parent, namely

1. You are great to become a parent.

To obtain this title, the score must be 75 or above. ( $\geq 75$ )

2. You are good enough to become a parent.

To obtain this title, the score must be 38 to 74. ( $38 \leq x \leq 74$ )

3. You are not able to become a parent.

If get this title, means the score is around 0 to 34, ( $0 \leq x \leq 34$ ) and it means that the participant are not ready enough for being a parent. This is based on the response from previous statement.

To help participant that obtain this result, we also provide the best way to increase you parenting skill.

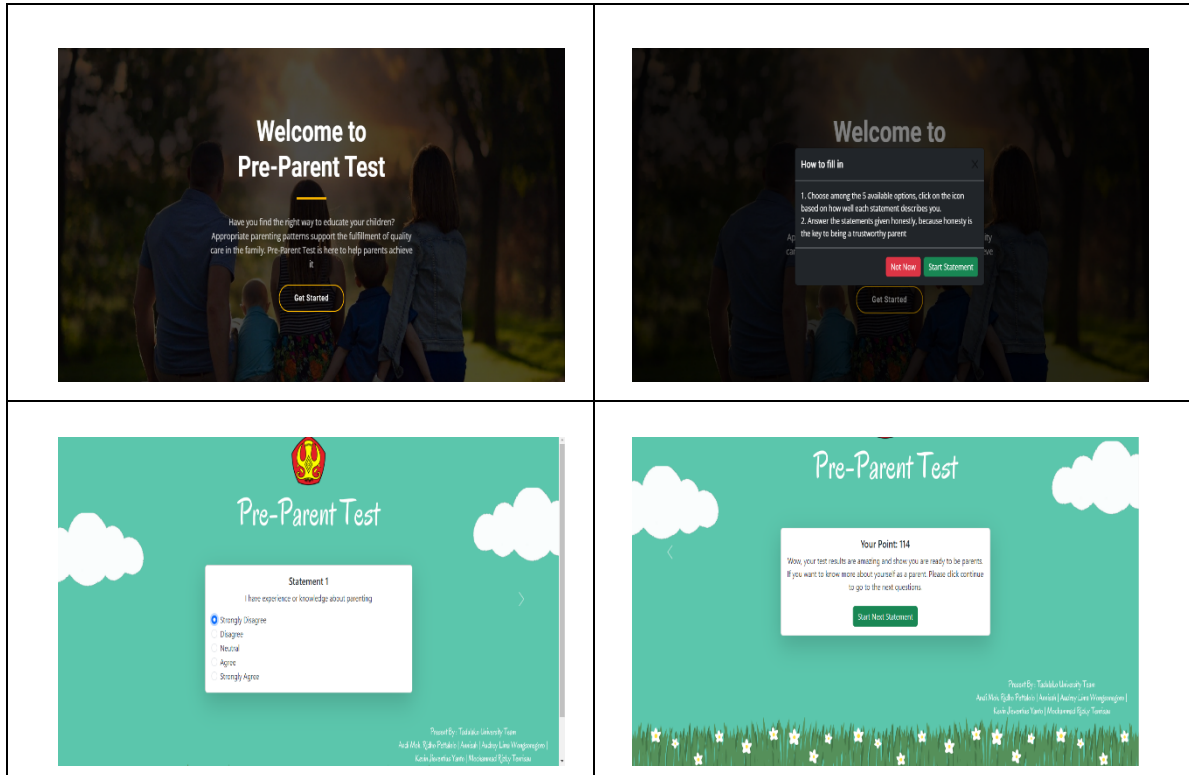
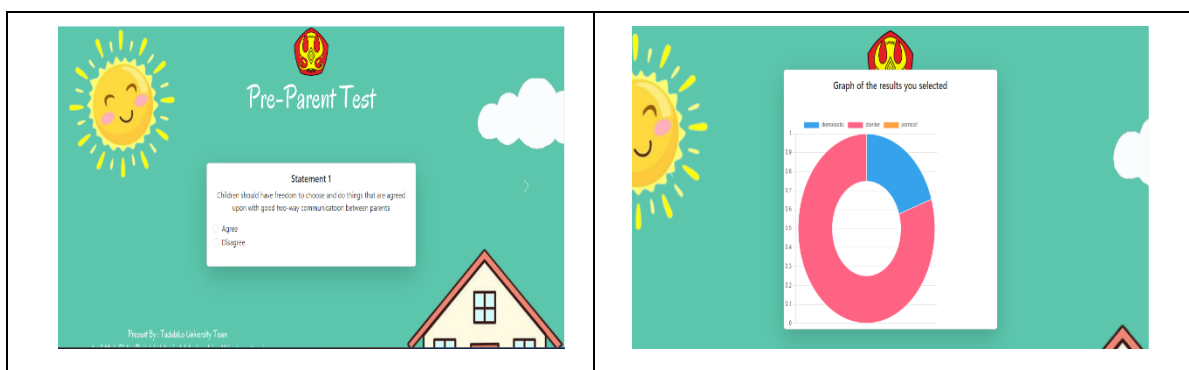


Fig. 2. Pre-parent test in stage 1.

Furthermore, the second stage of the test will appear if it is classified as great and good enough to become a parent, as shown in Fig. 3. This stage consists of 12 statements with the choice of agree or disagree. After sending a response, a diagram will appear presenting the results of the choices which will divide parenting style into three types, namely, democratic parenting style, permissive parenting style, and authoritarian parenting style.



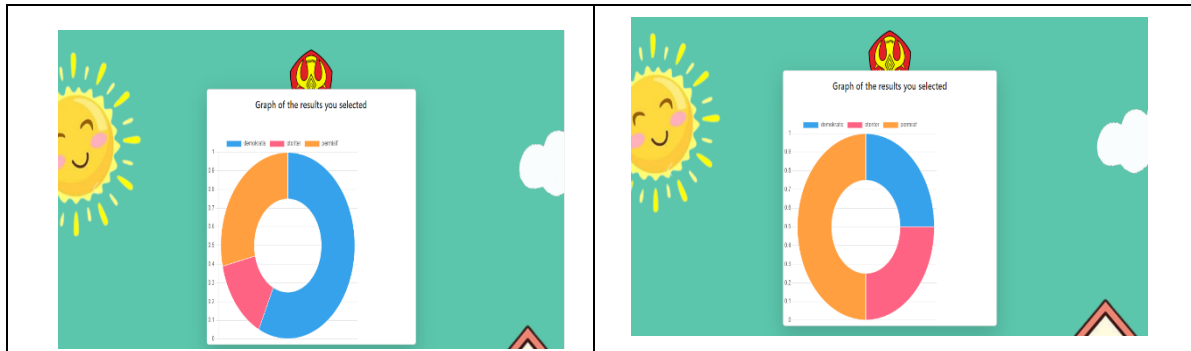


Fig 3. Pre-parent test in stage 2.

## V. CONCLUSIONS

In this study, we designed pre-parent test-based website application. This pre-parent test is needed to improve the quality of parenting and helps adults understand the strengths and weaknesses in educating children. Therefore, parents can determine the best parenting strategies to implement in their family.

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