The Influence of Cultural Dimensions and Website Quality on m-banking Services Adoption in Bangladesh: Applying the UTAUT2 Model Using PLS

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The Influence of Cultural Dimensions and Website Quality on m-banking Services Adoption in Bangladesh: Applying the UTAUT2 Model Using PLS

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Abstract: The proliferation of the ICT, smart phone, mobile technologies and other devices such as tab, note pad has encourage the users, financial organization and banks to use more m-banking services than before. The adoption of ICT varies on country to country according to the nature or characteristics of the people. And now a days, m-banking is considered to be an inseparable factor for financial firms for developing and developed country. Since the prior studies has limited focus on cultural dimensions and very few study considered the importance of website quality on m-banking adoption. Therefore, we proposed a model in this study that extended the original UTAUT2 model with cultural dimensions and website quality to know the influences on the m-banking services adoption of Bangladeshi consumer. As a developing country like Bangladesh m-banking services adoption can play an important role and also motivate people to use m-banking services. This paper analyzed by applied partial least squares (PLS) with 220 samples. The study found that performance expectancy, facilitating condition and price value influences on behaviour intention but effort expectancy had no influence on m-banking adoption in this research. This study also revealed that power distance had influence on m-banking adoption and masculinity and uncertainty avoidance had no influence on behavioral intention to adopt m-banking services. The paper offers valuable insights to decision-makers involved in the implementation and deployment of m-Banking services. Moreover, the results endorse the relative significance of websites quality and culture to the adoption of m-banking services adoption. It will help the banking sectors to regulate their strategies and future plans to advance successful adoption and diffusion of m-banking services in Bangladesh.

Keyword: m-banking, Cultural dimension, Website quality, UTAUT2 and PLS-SEM and Bangladesh.

1. INTRODUCTION

Internet banking is one of the most popular e-commerce applications[1]. Most of the bank introduced internet banking to cut cost as well as improve customer services[2]. But, due to some limitation of internet banking[3], mobile banking system introduced by the financial firms[4], which considered the most information system innovation in financial sectors. Mobile banking reduces the operational cost and providing more convenient and on time services[5]. The wireless technology enhances the total number of mobile phone users which gives much opportunity to the customers to execute their commerce transaction more promptly than before. This wireless technology (mobile phone) inspires many firms to develop to offer their services through alternative delivery channel (ADC) and the rate of penetration of mobile devices brings implausible opportunities to the wireless technology users or m-service users. All these things happen due to the advancement of ICT and especially financials firms invested bulk resources in ICT development to gain competitive edge in implementing the new information technology[6]. A number of research gives clear ideas about Information technology adoption models[7-12] and a few number of models elucidate about final user perspectives[13, 14].
With the steady growth of mobile banking and its importance and influence in various economic and commercial aspects of life, there are some communities including the Bangladeshi society that are still in the early stages of using m-banking technology. Despite significant growth found in last three years, mobile banking has not accepted widely in Bangladesh. According to data provided by Bangladesh Telecommunication Regulatory Commission (BTRC), there are around 160 million people in the country of which the total number of mobile phone subscribers has reached 133.163 million at the end of November, 2015, (www.btrc.gov.bd). And among these the total number of Internet Subscribers has reached 53.941 million at the end of November, 2015 (40% people has internet connection on their mobile phone) means 30% mobile users, around 31.20 million (Bangladesh Bank www.bb.org.bd) are registered under mobile banking services which means 80.5%, around 101.963 million, people have not yet adopted mobile banking services. This provides a good indication of the low rate of mobile banking users compared with the total population who usages internet.

Researchers found the adoption of ICT depends on the characteristics of the people from where they are living and this research focus on m-banking adoption a part of ICT. There is another factor is important for the adoption of mobile banking is the website quality. Prior studies scholars adopted Hofstede four cultural dimensions[15], and five cultural dimensions[16] to study m-banking adoption. But no researches have been done in m-banking adoption in any country perspective which integrates six cultural dimensions. In this study, we introduce three dimension power distance (PD), masculinity (MF), and uncertainty avoidance (UA) among the six cultural dimension model and UTAUT2 model. Since, Hofstede gather data all over the world and as a country Bangladesh score Power Distance (80), Uncertainty Avoidance (60), Masculinity versus Femininity (55), Collectivism versus Individualism (20), Pragmatic versus Normative (47), and Restraint versus Indulgence (20). Hofstede identified these three dimension has significant score for Bangladesh. The previous study on website literature, researchers[18-21] identifies the multiple dimensions such as information quality, system quality, security, user satisfaction, service quality and ease of use. The main gaps of this study, that need to be investigated is i) penetrate three cultural dimension ii) focus on website quality and iii) low rate of m-banking user in Bangladesh. Therefore, we investigated the influence of cultural dimensions and website quality to adoption of m-banking adoption in Bangladesh.

Through this paper we try to present the overview of the mobile banking aspects, mobile banking adoption with prior most acceptance models[13] UTAUT2. Further we include cultural dimensions and website quality to extend the UTAUT2 model and to know about the influences those on the adoption of m-banking especially for Bangladeshi consumer through UTAUT2 model and using PLS method.

2. LITERATURE REVIEW

2.1 About UTAUT2 Model:

In the field of information technology and technology acceptance, the Unified theory of acceptance and use of technology[12] (UTAUT) model is consider the most popular model. It consist of four construct such as performance expectancy (PE), effort expectancy (EE), facilitating conditions (FC), and social influence (SI)[12]. It is based on the eight most popular models in information success (IS) adoption studies including Technology acceptance model (TAM). The UTAUT model is an influential theory and actively used in Information success
adoption\textsuperscript{[22]}. The \textsuperscript{[12]} UTAUT model has an excellent acceptance in consumer perspective as well as organization perspective but it has some limitation found by\textsuperscript{[23]}. Therefore \textsuperscript{[13]} include other three constructs such as hedonic motivation, price value and habit with the UTAUT model to adopt UTAUT2 model in a particular consumer market hence we use this model on m-banking adoption in Bangladeshi consumer perspective. (UTAUT2)\textsuperscript{[13]} presents a justification for the taking and apply of information and communication technologies (ICTs) by consumers. It constitutes an extension of the UTAUT\textsuperscript{[12]} designated as UTAUT2\textsuperscript{[13]}, which was devised to give details the acceptance and use of ICT specifically by the consumer, since the UTAUT was originally devised in order to explicate the issues that affect the acceptance and use of ICT by employees where UTAUT\textsuperscript{[12]} was as an extension of the popular TAM\textsuperscript{[9, 10]}. Researchers analyzed cultural dimensions as a moderator on mbanking adoption through the UTAUT2 model\textsuperscript{[16]}.

2.2 Mobile Banking and Mobile banking Adoption

Prior studies explain about the benefits of m-banking such as checking account balances, transferring funds between accounts, and accessing other banking products and services from anywhere, at any point of time\textsuperscript{[24]}. Mobile banking is an important element of e-banking that comprises an alternative delivery channel (ADC) for financial and non-financial services that offered by different institutions\textsuperscript{[25]}. The term m-banking represents in various forms such as m-banking\textsuperscript{[26]}, branchless banking\textsuperscript{[27]}, m-payments, m-transfers, m-finance\textsuperscript{[28]} or p. M-banking transaction or accessibility of financial information is not popular or spread out through the mass people as expected though they offer more opportunities than before.

Researchers found significant interest in m-banking specially in practice and academia such as \textsuperscript{[29, 31]}. Some well-known accepted theories and models also studied in m-banking adoption such as technology acceptance model (TAM)\textsuperscript{[9]}, Innovation diffusion theory (IDT)\textsuperscript{[11]}, unified theory of acceptance and usage of technology (UTAUT)\textsuperscript{[12]} have been used to study the adoption or the intention to adopt m-Banking. Some prior studies related with mobile banking in Bangladesh perspectives are given below: \textsuperscript{[32]} using TAM model and \textsuperscript{[33]} used TAM and DTPB model.

To the best of our knowledge, none of the extant studies have taken a holistic view to assess m-Banking adoption by examining the UTAUT2 model. To be our best knowledge, one research had been done by using UTAUT2 model to mobile banking services adoption with considering culture as a moderator variable\textsuperscript{[16]} but no research in Bangladesh perspectives. This is our main strength to find out the influences of web site quality on m-banking services Adoption in Bangladesh. We are applying the UTAUT2 model using PLS.

2.3 Website Quality and Cultural dimension

Prior research relating to banks’ websites, portals or other service and product providers interested in e-business\textsuperscript{[34]}. Investigated the concept of service quality in e-banking portals and developed their service quality model. \textsuperscript{[18]} developed an instrument that captures key characteristics of website quality from the user’s perspective. Recent study found that within 2017 the total number of customer of m-banking will exceed 1.75 billion though it equal to only 32% of global mobile subscriber holder, Since prior research found that cultural dimensions is an important factors\textsuperscript{[35]} and the information technology in affected by culture revealed by\textsuperscript{[36]}. Since it plays an important role in technological acceptance \textsuperscript{[37]} that’s why researchers express their views to added cultural dimensions in acceptances model \textsuperscript{[38, 39]}. Some Scholars suggested that cultural value plays an
important moderator in technology acceptance[37] [40-43] found that culture have an unforeseen impact on adoption and that influence on user beliefs and attitudes towards the technology have an indirect impact on adoption through its influence on user beliefs and attitudes.

The adoption of ICT is depends how the countries people culturally motivated to use specially in mobile banking services[42]. Due to cultural differences in different countries affects individual behavior on technology adoption or use[40]. The adoption of mobile technology as well mobile banking depends on the telecommunication infrastructure, marketing strategies , service offerings and cultural diversity of consumers[44]. Prior studies revealed that culture has an important drivers in mobile banking adoption,[15, 16] [45].

In this study author tried to examine the impact of six cultural dimensions on mobile banking adoption but few research on this areas[15, 16] discuss 4 dimensions of culture on mobile banking adoption.

Hofstede’s defined culture as “the collective programming of the mind which distinguishes the members of one group or category of people from another”[46] but before that[47] define his views on culture as the process how can people settle their problems and dilemmas. Again[48] given their opinion as it is transmitted and developed ideas, symbols and different patterns of values which in important for human behaviour. Besides these concepts of culture,[49] oppose that “the assumption of homogeneity is not appropriate, particularly if the national constructs are to be integrated into IS models that reflect individual behavior…” (p. 214). But scholars give their opinion to Trompenaars, 1993, for his ideas about cultural dimensions in front of the people’s eyes.

3. HYPOTHESIS AND RESEARCH MODEL
3.1 Hypothesis

To investigate the influence of cultural dimensions and web site quality on m-banking adoption UTAUT2 model and Hofstede cultural dimensions were combined together in this research. Since UTAUT model and UTAUT2 model was found the most effective and perfect model in information technology acceptance therefore we investigated this UTAUT2 model here. Performance expectancy(PE) reflects user perception of performance improvement by using Internet banking on tasks, i.e., it is the degree to which an individual believes that using Internet banking will help to attain gains in performing banking tasks[12]. It reflects user perception of performance improvement by using Internet banking, such as convenience of payment, fast response, and service effectiveness[31]. Again, effort expectancy construct represents the perceived ease of use (TAM) of an IS[6, 50-53][54] and also has a positive influence on the behavioral intention. Some features such as user interfaces, content design, and functional ability[12, 30] of mBanking can influence its adoption. Facilitating conditions is a UTAUT2 construct that is considered to have a direct effect on the technology adoption. Different form of promotion of mBanking, and support from the organization remove impediment to usage and influence adoption. A number of literature[55, 56], based on ICT found that hedonic motivation has influence on behavioral intention and actual use of that technology. Specially in consumer[13] context by UTAUT2,[13] explain that it influences both technology acceptance and usages[57-59]. The second constructs introduce in UTAUT2 is price value. According to[13], monetary cost will incur when consumer see any technology oriented services and that is related and influence on consumers buying situation. Before introducing the last and third constructs habit in UTAUT2 model, a number of studies[60, 61]. In UTAUT2 habit took from[61] which explained the use of technology has direct effect on it. In this
study, author omitted hedonic motivation and habit from the conceptual model due not directly related to the mobile banking adoption [62] but price value is incorporated because mobile banking adoption is directly related to the financial issues. Therefore, the hypothesis are given below

<table>
<thead>
<tr>
<th>No.</th>
<th>Hypothesis</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>H1-H4</td>
<td>The influence of Performance Expectancy (PE), Effort Expectancy (EE), Facilitating Conditions (FC), and Price value (PV) on Behavioural Intention (BI) will be positive.</td>
<td>[13, 16]</td>
</tr>
<tr>
<td>H5</td>
<td>The influence of Facilitating Conditions (FC) on Usage Behaviour (UB) will be positive.</td>
<td>[13, 16]</td>
</tr>
</tbody>
</table>

As indicated by the work of [63], website quality, with its dimensions of design, structure and content, is an important factor for achieving customer satisfaction. Social influence is important for the community’s satisfaction assessment, while system quality is important for search engine websites [64]. The characteristics of website system include as system, information and service quality [65]. Again, website quality affects on behavioral intention and usages intention in prior studies [66-70]. Cultural dimension, uncertainty avoidance, UA is also included in Hofstede’s cultural dimensions and in most of the cultural technology adoption studies researchers frequently incorporates the UA. [71]. It has a negative relationship with the acceptance of information technology. Researchers mentioned that people in high UA cultures are less interested to accept information technology innovations like mobile banking[72] because this medium is not well suited to uncertainty reduction rather than face to-face conversations or other channels[40]. Society challenges, assertiveness, earnings, ambition and dealings are considered as valued factors [17] compare than the feminist society [73]. In masculine cultures people has less interest in their online transactions, [74]. The dimension of PD has also used to study information technology adoption [43],[75] found that people in low PD societies have higher rate of IT acceptances compare than others.

<table>
<thead>
<tr>
<th>No.</th>
<th>Hypothesis</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>H6-H7</td>
<td>Website quality (WQ) will have a positive and significant influence on behavior intention and usage behaviour to use m-banking services.</td>
<td>[18, 76]</td>
</tr>
<tr>
<td>H8-H10</td>
<td>Cultural dimensions Power Distance (PD), Uncertainty Avoidance (UA), Masculinity versus Femininity (MF) will have a positive and significant influence on Behavioural Intention (BI) to use m-banking services.</td>
<td>[16]</td>
</tr>
<tr>
<td>H11</td>
<td>Behavioural Intention (BI) will have a significant positive influence on Usage Behaviour (UB) to use m-banking services.</td>
<td>[13, 16]</td>
</tr>
</tbody>
</table>

3.2 The research Model

![Figure 1. Proposed Research Model](image-url)
4. RESEARCH DESIGN DATA ANALYSIS

4.1 Research design

A comprehensive set of questionnaire is being used in this research. The questionnaire design was divided into two sections. The first section is comprised of six questions which consist of demographic profile and sources of getting interested in mobile banking. The second section consists of 34 questions of 10 constructs. The items and scales for the UTAUT2 constructs were adapted from \cite{12, 13} use behaviour from \cite{12} , cultural dimension \cite{16} and , web site quality from \cite{76, 77} to improve content validity \cite{78} . The participants were asked to scale the relevant facts on a Likert scales from 1 to 7 with a response continuum from “strongly disagree” to “strongly agree”. We prefer to convenient sampling for our research because it is cost effective \cite{79} and who has at least a mobile bank account in Bangladesh. Finally, we collect 220 valid data from customer to analyze. It should be noted that small sample is appropriate for Partial Least Squared (PLS) \cite{80} . Since \cite{81} suggested that to test the structure equation model researchers can collect data minimum 91 sample for maximum 10 of arrows pointing to the latent variable in the model. According to \cite{82, 83} to analysis by PLS, it required the sample 10 times for the following possibilities: a) the largest number of indicator b) the depending variables that interacting through the independent variables . This study required 110 samples to make data analysis by PLS though in this study consider 220 samples which is supported by the prior studies. For data analysis SmartPLS 2.0 were used \cite{84} . Expert researchers differentiate between measurement and structural models and explicitly take measurement error into account \cite{85} . Smart PLS 2.0M3 \cite{84} was the software used to analyze the relationships defined by our theoretical model.

4.2 RESULT AND DATA ANALYSIS

4.2.1 Analysis of the Measurement Model

<table>
<thead>
<tr>
<th>Construct</th>
<th>Item</th>
<th>Loading</th>
<th>Construct</th>
<th>Item</th>
<th>Loading</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE</td>
<td>PE1</td>
<td>0.8305</td>
<td>WQ</td>
<td>WQ1</td>
<td>0.8525</td>
</tr>
<tr>
<td></td>
<td>PE2</td>
<td>0.8558</td>
<td></td>
<td>WQ2</td>
<td>0.8653</td>
</tr>
<tr>
<td></td>
<td>PE3</td>
<td>0.8718</td>
<td></td>
<td>WQ3</td>
<td>0.8234</td>
</tr>
<tr>
<td></td>
<td>PE4</td>
<td>0.8563</td>
<td>UB</td>
<td>UB1</td>
<td>0.9451</td>
</tr>
<tr>
<td>EF</td>
<td>EF1</td>
<td>0.9285</td>
<td></td>
<td>UB2</td>
<td>0.945</td>
</tr>
<tr>
<td></td>
<td>EF2</td>
<td>0.8345</td>
<td></td>
<td>UB3</td>
<td>0.9268</td>
</tr>
<tr>
<td></td>
<td>EF3</td>
<td>0.8138</td>
<td>PD</td>
<td>PD1</td>
<td>0.885</td>
</tr>
<tr>
<td></td>
<td>EF4</td>
<td>0.5946</td>
<td></td>
<td>PD2</td>
<td>0.8871</td>
</tr>
<tr>
<td>FC</td>
<td>FC1</td>
<td>0.8958</td>
<td>MF</td>
<td>MF1</td>
<td>0.9058</td>
</tr>
<tr>
<td></td>
<td>FC2</td>
<td>0.862</td>
<td></td>
<td>MF2</td>
<td>0.9186</td>
</tr>
<tr>
<td></td>
<td>FC3</td>
<td>0.6858</td>
<td></td>
<td>MF3</td>
<td>0.9267</td>
</tr>
<tr>
<td>PV</td>
<td>PV1</td>
<td>0.8991</td>
<td>UA</td>
<td>UA1</td>
<td>0.5635</td>
</tr>
<tr>
<td></td>
<td>PV2</td>
<td>0.9142</td>
<td></td>
<td>UA2</td>
<td>0.8996</td>
</tr>
<tr>
<td></td>
<td>PV3</td>
<td>0.8943</td>
<td></td>
<td>UA3</td>
<td>0.8898</td>
</tr>
<tr>
<td></td>
<td>PV4</td>
<td>0.9053</td>
<td></td>
<td>UA4</td>
<td>0.9043</td>
</tr>
<tr>
<td>BI</td>
<td>BI1</td>
<td>0.8426</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>BI2</td>
<td>0.9143</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>BI3</td>
<td>0.8593</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
In this research, measurement model was tested by the internal reliability, convergent and discriminant validity \[^{[86]}\] where internal reliability is determined by Cronbach’s alpha (CA) and composite reliability (CR) and the acceptance level of indicator is 0.70 \[^{[87]}\]. In this study the calculated value Table 1 & 2 both CA (range from 0.7564 to 0.9249) and CR (range from 0.8758 to 0.9572) is more than the acceptance value.

Table 2: Square root of AVE (in bold on diagonal) and factor correlation coefficients.

<table>
<thead>
<tr>
<th></th>
<th>BI</th>
<th>EF</th>
<th>FC</th>
<th>MF</th>
<th>PD</th>
<th>PE</th>
<th>PV</th>
<th>UA</th>
<th>UB</th>
</tr>
</thead>
<tbody>
<tr>
<td>BI</td>
<td>0.8725</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EF</td>
<td>0.1562</td>
<td>0.8022</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FC</td>
<td>0.3846</td>
<td>0.1247</td>
<td>0.8197</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MF</td>
<td>0.4049</td>
<td>0.1188</td>
<td>0.046</td>
<td>0.9170</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PD</td>
<td>0.4475</td>
<td>0.0186</td>
<td>0.136</td>
<td>0.5128</td>
<td>0.8884</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PE</td>
<td>0.3657</td>
<td>0.2056</td>
<td>0.3443</td>
<td>0.084</td>
<td>0.0835</td>
<td>0.8536</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PV</td>
<td>0.4189</td>
<td>0.089</td>
<td>0.307</td>
<td>0.1711</td>
<td>0.1622</td>
<td>0.3238</td>
<td>0.9032</td>
<td></td>
<td></td>
</tr>
<tr>
<td>UA</td>
<td>0.2013</td>
<td>0.0128</td>
<td>-0.0036</td>
<td>0.2695</td>
<td>0.3689</td>
<td>0.061</td>
<td>0.0791</td>
<td>0.8271</td>
<td></td>
</tr>
<tr>
<td>UB</td>
<td>0.4395</td>
<td>0.0538</td>
<td>0.3662</td>
<td>0.1744</td>
<td>0.1135</td>
<td>0.4219</td>
<td>0.4905</td>
<td>0.1137</td>
<td>0.9389</td>
</tr>
</tbody>
</table>

Convergent validity is acceptable when constructs have an average variance extracted (AVE) of at least 0.50 \[^{[88]}\] where in our study also support this because AVE values stand from 0.6436 to 0.8817. from Table 1. Discriminant validity is assessed by AVE with the square of the correlations among constructs \[^{[89]}\]. Table 2. below shows the result of the square root of the AVE given in the diagonals which are higher than the correlation among the constructs. Gefen and Straub (2005) And \[^{[90]}\] suggested that square root of the AVE of each construct needs to be much larger, although there are no guidelines about how much larger, than any correlation between this construct and any other construct.

4.2.2 Analysis of the Structural Model

The structural model was developed to identify the relationships among the constructs in the research model. Bootstrap method was used to test the hypothesis \[^{[91, 92]}\]. In our study tested the relationship between dependent and independent variables by path coefficient (β) \[^{[88]}\]. path coefficients with standardized values above 0.20 are usually significant and those with values below 0.10 are usually not significant. The model explains 44.8% of the variance in intention to use m-banking (0.448) and 28.5% of variance in actual use of m-banking (0.285) from Figure 2.
Table 3: Summary of test results for the structural model

<table>
<thead>
<tr>
<th>Hypothesis</th>
<th>Path</th>
<th>Coefficient</th>
<th>t-Statistics</th>
<th>p-Value</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>H11</td>
<td>BI -&gt; UB</td>
<td>0.326</td>
<td>2.7955</td>
<td>0.0056</td>
<td>Supported</td>
</tr>
<tr>
<td>H2</td>
<td>EF -&gt; BI</td>
<td>0.041</td>
<td>0.3825</td>
<td>0.7024</td>
<td>Not supported</td>
</tr>
<tr>
<td>H3</td>
<td>FC -&gt; BI</td>
<td>0.206</td>
<td>2.2713</td>
<td>0.0241</td>
<td>supported</td>
</tr>
<tr>
<td>H4</td>
<td>FC -&gt; UB</td>
<td>0.225</td>
<td>1.9366</td>
<td>0.0540</td>
<td>Supported</td>
</tr>
<tr>
<td>H10</td>
<td>MF -&gt; BI</td>
<td>0.195</td>
<td>1.7835</td>
<td>0.0758</td>
<td>Not Supported</td>
</tr>
<tr>
<td>H8</td>
<td>PD -&gt; BI</td>
<td>0.263</td>
<td>2.2048</td>
<td>0.0285</td>
<td>Supported</td>
</tr>
<tr>
<td>H1</td>
<td>PE -&gt; BI</td>
<td>0.167</td>
<td>1.9019</td>
<td>0.0584</td>
<td>Supported</td>
</tr>
<tr>
<td>H5</td>
<td>PV -&gt; BI</td>
<td>0.213</td>
<td>2.0918</td>
<td>0.0376</td>
<td>Supported</td>
</tr>
<tr>
<td>H9</td>
<td>UA -&gt; BI</td>
<td>0.029</td>
<td>0.2581</td>
<td>0.7965</td>
<td>Not supported</td>
</tr>
<tr>
<td>H6</td>
<td>WQ -&gt; BI</td>
<td>0.076</td>
<td>0.8664</td>
<td>0.3872</td>
<td>Not supported</td>
</tr>
<tr>
<td>H7</td>
<td>WQ -&gt; UB</td>
<td>0.218</td>
<td>2.2018</td>
<td>0.0287</td>
<td>Supported</td>
</tr>
</tbody>
</table>

R² for BI=.448, R² for UB=.285

5. DISCUSSION ANF FINDINGS

Here we discuss about the result of our proposed extended UTAUT2 model by findings the consistency and inconsistency of the previous study on mobile banking adoption on UTAUT2 model with cultural dimensions model found significant relationship with BI→UB (.121), PE→BI (.362) and rest of the relationship found insignificant on mobile banking adoption on UTAUT2 model. This finding is same as our findings. From Table 3 author found BI → UB (.326), PE→BI (0.1675), EF→BI (0.0413), FC→BI (0.2061), FC→UB (0.2247), PV→BI (0.213), and rest of the relationship found insignificant of the UTAUT2. Performance expectency result is consistency with the research similarly supported by our findings as well as, where some research found no consistency with behavioral intention like. Facilitating condition has positive influence on usages behavior and behavioral intention. Prior research had the same findings for usages behavior but not supported. Price value has no influence on behavioral intention with some earlier research but our findings is supported which is same as others. Uncertainty avoidance is supported by but not supported by our findings. Power distance was supported by that is same as this research findings. Masculinity has no influence on behavioral intention, is supported by, but contradicting others that did find it to be significant. And in case of web site quality our result WQ→UB (2.2018) is consistent with the results of several studies, but WQ→BI (.0759) is not supported, all of which reported that website quality affects behavioural intention, usage behaviour, and user satisfaction in their decision to adopt mobile banking services adoption. By considering cultural dimension PD found to be influence to the behavioral intention. Therefore we can say H8 was supported. This findings is similar with the in case of power distance but not with uncertainty avoidance. Again, rests of the dimension MF, UA are not found influence on mobile banking adoption. So, in this paper we can say H9, H10 was not supported. This findings also supported by for masculinity dimensions but in this study not supported.

6. CONCLUSION

The purpose of the study was to identify the influence of cultural dimension and web site quality to
adoption of mobile banking in Bangladesh which is considered to be a vital factor for the consumers to adopt mobile banking services. Based on the prior studies on mobile banking adoption, authors extend the UTAUT2 model with adding website quality and cultural dimensions. Our result is consistent with the Hofstede cultural dimension characteristics explained in original model in power distance perspectives but contradict with the masculinity and uncertainty avoidance. Therefore, future research will be focus on t masculinity and uncertainty avoidance to study in same country as well other country. Since in Bangladesh e-commerce service provider and users can take financial advantage from the adoption\textsuperscript{[100]}, also in our study customers are benefited by using mobile banking service. This paper is not out of limitation. Author studied the impact of website quality on usages behavior which is not consistent with the existing result because the prior studies considered small samples. Therefore, future research can be study website quality on m-banking adoption to generalize the findings. The original model has some moderators but we make our study simple by excluding those as well as we do not take cross cultural approach which may limit the generalizability of our study. Further research should include cultural dimension as a moderator variable like willingness to share\textsuperscript{[101]} or demographic variables as moderators and perceived risk, trust or brand equity as external variable which can explain behavioral intention and usages behavior better than our research. And to some extent our study required qualitative research to know more insight the findings for further study.

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