

**E-INTERNSHIP MANAGEMENT MODEL FOR ISLAMIC
DEVELOPMENT BANK IN SUDIA ARABIA**

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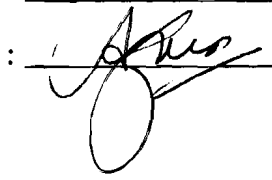
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ABSTRACT

A key factor which makes Web Based Applications (WBA) highly recommended over stand alone system is centralized mechanism used in those applications. Internship Management in Islamic Development Bank (IDB) use variety of systems which are mostly mixture of WBA and some manual procedures. This study would try to enhanced the process of the current management procedures by converting it entirely into a WBA which solved some of the critical issues which were not supported by the current system. The proposed system adopted Extreme Programming (XP) and Rational Unified Process (RUP) methodology in order to fulfill its objectives.

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CHAPTER ONE

INTRODUCTION

1.1 BACKGROUND

The Islamic Development Bank Group (IDB Group) is a multilateral development financing institution comprising five entities: the Islamic Development Bank (IDB), Islamic Research and Training Institute (IRTI), Islamic Corporation for the Development of the Private Sector (ICD), Islamic Corporation for the Insurance of Investment and Export Credit (ICIEC), and International Islamic Trade Finance Corporation (ITFC). The IDB Group is engaged in a wide range of specialized and integrated activities. (Islamic Development Bank Group In Brief, 2010)

The functions of the Bank are to participate in equity capital and grant loans for productive projects and enterprises besides providing financial assistance to member countries in other forms for economic and social development. The Bank is also required to establish and operate special funds for specific purposes including a fund for assistance to Muslim communities in non-member countries, in addition to setting up trust funds. The Bank is authorized to accept deposits and to mobilize financial resources through Shari'ah compatible modes. It is also charged with the responsibility of assisting in the promotion of foreign trade especially in capital goods, among member countries; providing technical assistance to member countries; and extending training facilities for personnel engaged in development activities in Muslim countries to conform to the Shari'ah.

The purpose of the Bank is to foster the economic development and social progress of member countries and Muslim communities individually as well as jointly in accordance with the principles of Shari'ah i.e., Islamic Law.

Islamic Development Bank is involved in many activities such as:

- Development assistance
- Research and training in Islamic economics and banking
- Technical assistance for capacity building

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7. REFERENCE:

- Ambler, S. (2002). *Agile Modeling: Effective Practices for Extreme Programming and the Unified Process* (1st ed.) New York: Wiley & Sons.
- Blanchard, B. S., & Fabrycky, W. J.(2006). *Systems engineering and analysis* (4th ed.) New Jersey: Prentice Hall.
- Bajgoric,Nijaz.(1999). *Web-to-Host Connectivity Tools in Information Systems, Systems Development Management*
- Conallen, J.(2003). *Building Web Applications with UML*, (Second Edition), Addison Wesley.
- Connolly, T., & Begg, C.(2005). *Database Systems*, (2nd Edition), Addison Wesley.
- Cem Kaner. (2009). “Activities in software testing education: a structure for mapping learning objectives to activity designs” Software Testing Education Workshop (International Conference on Software Testing), Denver.
- Department of Human Resource in Islamic development Bank (2010).*Islamic Development Bank Group in Brief Book*.
- Dickerson, T. (1989). *Travel law*. New York: Law Journal Seminars-Press.
- Graham, P. (2001). *The Other Road Ahead*. Retrieved from April 25, 2011
<http://www.paulgraham.com/road.html>
- Elizabeth Levin & Catherine Pocknee; & Gabriella Pretto, (2009).*The challenges of establishing an internship program: Policy, expectations and workloads*. Swinburne University of Technology.
- Ginige, A., & Murugesan, S. (2001). *Web engineering: An introduction*. IEEE Multimedia, 8(1), 14-18.
- Kling, A. (1994). *The economic consequences of the World Wide Web*. Paper presented at the second World Wide Web Conference: Mosaic and the Web, Geneva, Switzerland.
- Konick, K, Hyzny, L, & Allegra, R. (2003). *Electronic reserve: the promise and challenge to increase accessibility*. Library Hi Tech, 21.

Kruchten, P.(2004). *The Rational Unified Process: An introduction* (3rd ed.),Addison Wesley.

Luke Wroblewski & Esa M. Rantanen (2009). *Design Considerations for web-based Applications*.

Post, G., & Anderson, D.(2006). *Management information systems: Solving business problems with information technology*. (4th ed.). New York: McGraw-Hill Irwin.

Roper,M. (1994) *Software Testing*. New York: McGraw-Hill Irwin.

Schwalbe, K. (2005). *Information technology project management*. (4th ed.). New York: Thomson.

Steven Alter (1996). "*Basic Ideas for Understanding Information Systems*" in *Information Systems: A Management Perspective*, 2nd Edition, Benjamin Cummings, 1-9, 1996.

Sulaiman,J., Yamin, R.H.M., Noor, N.K.M. (2008). *Electronic Student Academic system (E-SAS) for Secondary School*. Retrieved April 15,2011, from <http://www.ibimapublishing.com/journals/CIMIMA/volume5/v5n25.pdf>