



E-Application Development

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Agenda



- Introduction
- Developed e-Applications and Local needs in our country
- Development Tools Used
- Challenges experienced by e-Application Developers (ideation - successful market entry)
- Conclusion

Introduction

Ministry's goal

- Electronic enablement of governmental services for businesses and citizens/residents.

The whole idea is that services that can be given electronically will be made available through alternative channels

E-Application

- A digital application that uses online forms, electronic forms, online processes, online templates or application forms

Ex - tender, bid, benefit, grant, fund, requisition, membership, online account, service, funding...

Our Role in E-Application Development

- Supervise/Coordinate e-Government related projects (most of them being e-Applications)
- Develop with private 3rd parties (by local and/or international IT Companies via outsourcing)
- Monitor and Follow up

Developed E-Applications

Some of E-Applications developed in our country



- **IFMIS – Integrated Financial Management Systems -**
- **Transactional Service Platform (e-Services)** - customer can apply online to government services from anywhere using the **internet**
- **Transactional Government Mobile Apps** - customer can apply online to government services from anywhere using an **App**
- **e-Procurement** - web-based electronic public procurement system that automates the various stages of purchasing

- **Online Customer Complaint and Suggestion Management System** - Citizen can express views on state of public services, policies, programs, and other matters of national interest.
- **e-Office** - a Web-based Electronic Office System that would support core office business processes and operations.
- **e-Visa** - an official document permitting entry into and travel within Ethiopia

Development Tools Used

Development Tools Used (Examples)



- **Design:**
 - Service Oriented Architecture (SOA)
 - Entity Framework
 - MVC
- **Database:**
 - MS-SQL Server
- **Back End:**
 - SOAP/REST
 - .NET Technology
 - XML, JSON
- **Front End:**
 - HTML5
 - Bootstrap
 - JavaScript (Angular)
- **Others**
 - Liferay 6.2 – Portals
 - Git – Version Control
 - Trello – Task Mgt
 - DotNetNuke 7.0: web CMS
 - Unity Container From Microsoft

Challenges experienced by E- Application Developers (ideation to successful market entry)

Challenges



- Major challenges are:

GENERAL

- Limitation on giving Maintenance, Support and Upgrading by Development companies
- Adaptability to fast technology changes
- Compatibility to the existing scenario
- Customer commitment/resistance
- Understanding customer needs

Cont...



IMPLEMENTATION SIDE

- Limitation of resource
- Limited capacity of the Infrastructure\ technology
- Limitation on the skills and knowledge of the sector

Conclusion



Conclusion



In conclusion

- The Ministry acknowledges the vital use of E-Application for citizens
- The Ministry has developed more than those are mentioned above solutions
- The Ministry is addressing the challenges
- The Ministry is working to Bring the government closer to the people

Thank You!

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