



"Define-Achieve-Maintain"

Technology & Business Solutions Ltd.

Company Profile

Merging

Technology

Processes

People

*'Providing Technology Solution to Business
Needs Since 2005'*

Area of Expertise

- ✓ **Web Application**
- ✓ **Web Portal**
- ✓ **Websites**
- ✓ **Mobile App**
- ✓ **Web Services**
- ✓ **Web API**
- ✓ **Scheduler**

Enhancing

- ❖ *Functionality*
- ❖ *Sustainability*
- ❖ *Maintainability*
- ❖ *Reliability*
- ❖ *Portability*
- ❖ *Scalability*
- ❖ *Performance*
- ❖ *Security*

- Member BASIS

Founded in 2005 with over 15+ years of experience, Technology and Business Solutions (TBS) (www.tecbsl.com) is a professional service provider designing and developing customized **Software Solution and Testing Services** based on clients' needs and requirements.

We strive to maintain the highest quality standards by implementing strict guidelines, procedures and processes, from conceptual design to product release. Our service is geared both to the Local and International (outsourcing) market.

Our limited, yet dedicated and loyal clients give us the unique ability to work closely with them to determine their exact software development goals and challenges, then design unique, solutions based on client needs. Our strong point is in providing flexible, customized, and personalized solutions to our clients and for this TBS has a dedicated and qualified software development and QA team that can ensure excellence.

WHY TBS:

- ✓ **Over 15+ Years of Software Development Experience**
- ✓ **Multi-Disciplinary Domain Knowledge**
- ✓ **Personalized Customer Service and Maintenance Support**
- ✓ **Industry Standard Software Development and Quality Assurance & Quality Control**
- ✓ **Experience in Public Sector, Private Sector and International Outsourcing**

OUR AREAS of WORK

- Requirement Analysis
- Coding & Programming
- Architecture & Design Analysis
- Quality Assurance & Testing

Other Areas

- Documentation (User Manual)
- Maintenance and Support
- Business Process Improvement (BPI)
- Digital Data Archiving
- Capacity Building and Training
- Full Operational Support

International Outsourcing Projects

- USA
- Indonesia

Type of Application Developed

- Pharmaceutical Solutions
- Accounting and Financial
- Education
- Marketing & Sales
- Communication
- Quality Control
- Inventory Management
- Enterprise Resource Planning (ERP)
- Monitoring & Evaluation
- Retail Management
- Asset Management
- Social Services
- Human Resource
- Aviation
- Digital Marketing
- Training Management System

Software Development

Our software development methods and processes follow all industry best practices and standards involving among others, the following:

- Agile Method
- Change Request (CR)
- Code Documentation
- Pseudo Code
- System Requirement Analysis (SRS)
- Change Request Analysis (CRA)
- Code Review and Inspection
- System Design Document (SDD)
- Version Control
- Flow Chart Analysis

Our Platform and Technology

Scripting/ Programing Language:	PHP, ASP.NET, ASP .Net Core, C#, JAVA, Objective C, PERL, Python, React JS, React Native
Architecture:	3 Layered Architecture, MVC Architecture, .Net Core
Content Management System:	Joomla, WordPress, Drupal, TBS Developed CMS
Database:	MYSQL, MSSQL, Oracle, MS Access
Mobile Database:	SQL Lite (Android), RMS (J2ME)
Client-Side Scripting:	JSON, JavaScript, JQuery, AJAX
Cloud Computing Services:	AWS, GoDaddy
Version Control System:	SVN, GitHub

Development Tools

- Adobe Dreamweaver
- PyCharm
- Sublime Text
- Notepad++
- Visual Studio
- Notepad++
- XCode
- Microsoft Visio
- Vim Editor, GEdit
- Eclipse
- Adobe Photoshop
- Android Studio

Software Testing

Our testing services can contribute in bringing software products **faster to market, improve quality**, and at the same time **reduce cost** by providing testing services during **peak demand and resource constraints** during the software development lifecycle. Our testing services can be availed for the **short and long term**, depending on the scope of work.

Our testing and Quality Assurance encompasses the following criteria

- ❖ *Functionality*
- ❖ *Compatibility*
- ❖ *Performance*
- ❖ *Reliability*
- ❖ *Usability*
- ❖ *Accuracy*

Testing Tools

Mobile Emulator:	Andy, GeneMotion
Web Automation:	Selenium WebDriver, Selenium IDE, Apache J
Performance Testing:	JMeter
Mobile Automation:	Appium
API Testing:	Postman
Defect & Document Tracking System:	JIRA, DMS (Defect Management System) proprietor Software developed in-house. Zoho, Google Docs

Our testing methods and processes follow all industry best practices and standards involving among others, the following:

- Test Case Development
- Test Plan
- Risk Assessment
- Agile Testing
- Bug Prioritization
- Test Coverage Analysis
- Bug Review Meetings
- Bug Documentation
- Test Case Execution

TESTING METHODS

For each testing assignment, verification and validation of the software goes through several or all of the following testing methods:

- Functional Testing:** Ensure its front-end and back-end perform as designed, effortlessly, efficiently, consistently, and all features and functionality are fault free.
- Compatibility Testing:** Make sure that the software will work seamlessly and flawlessly on the supported hardware, devices and third-party software utilities and tools.
- Load Testing:** We push the software to its limits to confirm that it can endure the demands of increasing data, information and end-users for a growing business.
- Performance Testing:** Testing process used for testing the speed, response time, stability, reliability, scalability, and resource usage of a software application under a particular workload.

- Usability Testing:** Provide feedback and recommendations that the UI/UX is intuitive, user-friendly, visually appealing and aesthetic.
- Regression Testing:** Retesting after each iteration of bug fixes and code changes, to validate absence of errors and faults throughout the software application.

Partial List of our Projects and Solutions

- FinPac** FinPac is a comprehensive Web Based Financial and Accounting Solution having five modules; Financial Accounting Asset Accounting Material Management, Sales & Distribution and Management Accounting.
- AeroTxt** AeroTxt is a cross platform mobile messaging application for Google Android and Apple IOS smart phones and tablets. Features Text, Voice, and Video Streaming, integrated with Iridium Satellite Communication system.
- SAP-212** **SAP-212** is an Innovative, compact, versatile, on-board communication gateway plus application hosting solution. SAP-212 is an aeronautical satellite communication system solution, specifically designed for commercial airlines. The solution comprises of a hardware unit, the Satcom Applications Platform (SAP-212) and a suite of very innovative software applications services.
- PQC** **Pharmaceutical Quality Compliance (PQC)** application is a centralized web-based information management system for Pharmaceutical QC / QA to store batch analytical result, manufacturing information, and to track, monitors analyze test data. Some of the compliance reports are Certificate of Analysis (COA) and APR (Annual Product Review). PQC has is deployed at a major multi-national pharmaceutical company and the software is in operation for the last eight years.
- BPATC ERP** **BPATC ERP** is web-based ERP with seven modules, Accounting & Finance, Store Management, Human Resource, Computer Equipment, Dormitory, Transport and a Training Management System. This application has been deployed at a large government training center.
- PMSO** **PMSO** Pharmaceutical Mobile Sales Order (PMSO) automates the sales order process by which medical sales representative takes order for pharmaceutical product from their customers, and through GPRS / EDGE sends the orders in real time to the head office. The system has two modules a mobile application and a web-based desktop linked to a central server. The application also features the capability which can generate mass SMS to communicate and interact with organization's field sale force.
- Acumen** **Acumen** is a customized ERP system designed and developed to manage the day-to-day operation of one of the premier Home Furnishing Company which includes four different companies and twenty-five retail outlets and warehouses. Acumen brings in all business entities under a common IT platform and business processes from the decentralized, dispersed and manual environment. The system has six modules, Sales and Distribution, Procurement, Inventory Management, Shop Management, Workflow Management and Administration. Besides development, TBS was involved in streamlining and developing new business process and made business process improvement (BPI) from the existing manual tasks, leading to

increased efficiency, productivity, transparency and cost saving.

Equator 360 **Equator 360** is a complete solution for local dying system including work order management, Greige inventory management, Inspection, delivery order management and reporting system.

FinCoach **FinCoach** is a centralized web application similar to paisabazaar where customer will be able to compare different types of financial product based on financial institution (FI) offering. Customer will choose a financial institution for the desired products and submit with full form fill up. FI user then verifies and provides the product based on their eligibility. This application will help customer to get their desired product.

Expensya **Expensya – Travel and Expense Management System** is web-based travel and expense management system for a company where each employee will be able to submit their expenses and travel requests in real time. It captures the expense as it happens for full visibility. Multi-role-based approval routing workflow, voucher attachments, reporting and dashboard, mobile responsive and many other features.

eHEMS **Electronic HCP engagement Management system (eHEMS)**
In Pharma sector, Medical & Regulatory Affairs department interact with Healthcare Organizations (HCO) and Professionals (HCP) for marketing. eHEMS captures interactions with HCO and HCP in details. The primary objective of eHEMS is coordinate and manage to promote products and arrange various types of event activities like CME, RTD, Seminar and Symposium where Key Opinion Leaders (KOL) became speaker and other respective brand related doctors became participants.

ePRM **Electronic Purchase Requisition Management (ePRM)** is a complete purchase order system for a company where user will be able to raise their purchase requisition for all kind of purchases. PO will generate automatically after final approval. Dynamic approval flow will be generated based on user cost center, location and purchase amount. Using this application, comparative statement (CS) will be managed. Good Received (GR) will be managed through the system. NON-COGS and COGS purchase order system will be managed through the system.

Fortis Automation **Fortis Automation** is a purchase system for all types of purchases for multiple companies. This application also offers budgeting system where PO will be done under budgeting.

This application includes land purchase system where all kind documents will be stored centrally like mutation, land registration, bayna documents etc. This application also includes payment information like advance payments, land registration, mutation etc.

Partial List of our Past and Present Clients

- Synovia Pharma PLC a subsidiary of Beximco Pharmaceuticals Limited
- KLAventis (Former Sanofi Indonesia)
- Clarus LLC (USA)
- Ministry of Social Welfare (MoSW) GoB
- National HIV / STD Programme (NASP) Go
- Rancon
- Sanofi Bangladesh Ltd.
- Unicef
- RTM International
- Ministry of Health and Family Welfare (MoHFW)
- Universal Health
- Forts Group
- Rancon
- Weavers
- Save the Children International
- Department of Social Service (DSS) GoB
- Bangladesh Public Administration Training Centre (BPTAC) GoB
- Dynasty
- FinCoach
- Uniworld Business Ltd





Products

- FinPac:** A Comprehensive Financial Accounting Solution Modules: Financial Accounting, Sales, Inventory, Managerial Accounting, Asset Management
<http://finpacerp.com/>
- HRCap:** HrCap consolidates all HR activities. Modules includes Employee Profile, Payroll, Tax, Provident Fund, Attendance, Leave, Self Service, and Rostering. www.tecbsl.com/hrcap
- ProExpense:** ProExpense is web based travel and expense management system for a company where each employee will be able to submit their expenses and travel requests in real time. It captures the expense as it happens for full visibility. <http://www.tecbsl.com/proexpense>
- Pharma Solution:** Pharma Solution is a Web Based sales force management system for pharmaceutical company where sales force is monitored using sales achievement, call reporting. <http://www.tecbsl.com/pharma>
- OMS:** Order Management System for pharma and other sector. Web and mobile based application for online order collection remotely in real time. The application has three modules Order Management, Invoicing and Inventory.

Long-Term Working Relationship

Synovia Pharma PLC a subsidiary of **Beximco Pharmaceuticals Limited** former **Sanofi, Bangladesh Ltd (SBL)** (www.synoviapharma.com) is the number one multinational pharmaceutical company of

Bangladesh and is a global integrated healthcare leader focused on patients' needs engaged in the research, development, manufacturing and marketing of innovative therapeutic solutions.

Technology & Business Solutions Ltd. (TBS) has a long-term partnership with SBL to collaboratively design and develop software applications, and provides long term maintenance support and testing services, thru Service Level Agreement (SLA). Our organization has developed and maintained multiple IT projects for over 12 years.

Bangladesh Public Administration Training Centre (BPATC) under the Ministry of Public Administration, Government of Bangladesh (GOB), is the apex public sector training institute in Bangladesh. The center offers innovative training courses across subjects, from public administration and governance to leadership training, it also arranges of seminars and workshops on various issues of national and global concerns. All courses can be customized to fit specific training needs.

Developed and implemented a comprehensive ERP application for the daily operation of the organization. The system has seven modules, Accounting & Finance, Store, HRM, Computer Equipment, Dormitory, Transport and Computerized Training Management System. The ERP has automated and streamlined most of the key areas of work, leading to increased efficiency, productivity and transparency. Operational, Maintenance and Support is done by TBS with a long-term SLA since 2015-2022

To Know More:

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