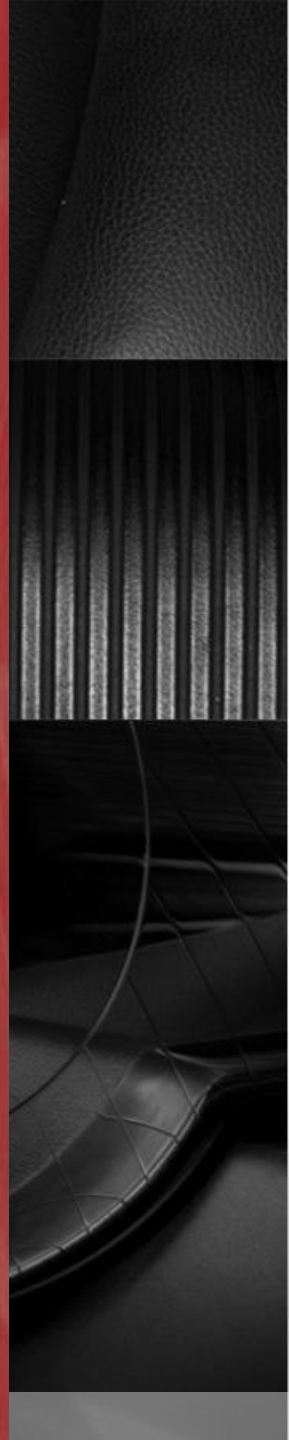# IBC Biosafety: Registration System

Analysis and Design

Gampon, Jonathan
Gmiryansky, Nikita
Jodesty, Joshua
Phang, Werawati
Shirley, Matthew

Agenda

- Current IBC Biosafety Registration System: Problem Description
- System Solution & Functionality
- Key Benefits
- Conversion
- User Interface
- Potential Risks
- Testing
- Future Planning
- Summary

Current IBC Biosafety Registration System: Problem Description

- The IBC Registration Log stores IBC Biosafety project information.
- Current system remains primitive and inefficient
- Not conducive to efficient project entry, retrieval, or maintainability.
- No disaster recovery plan.
- Too cumbersome for one individual.

System Solution

Easy to use system to store, track, and manage IBC biosafety project details

Ability to link all related forms for improved organization.

Notification system for tracking important dates and deadlines.

System Functionality

Store and link related documentation

Enter new IBC biosafety projects

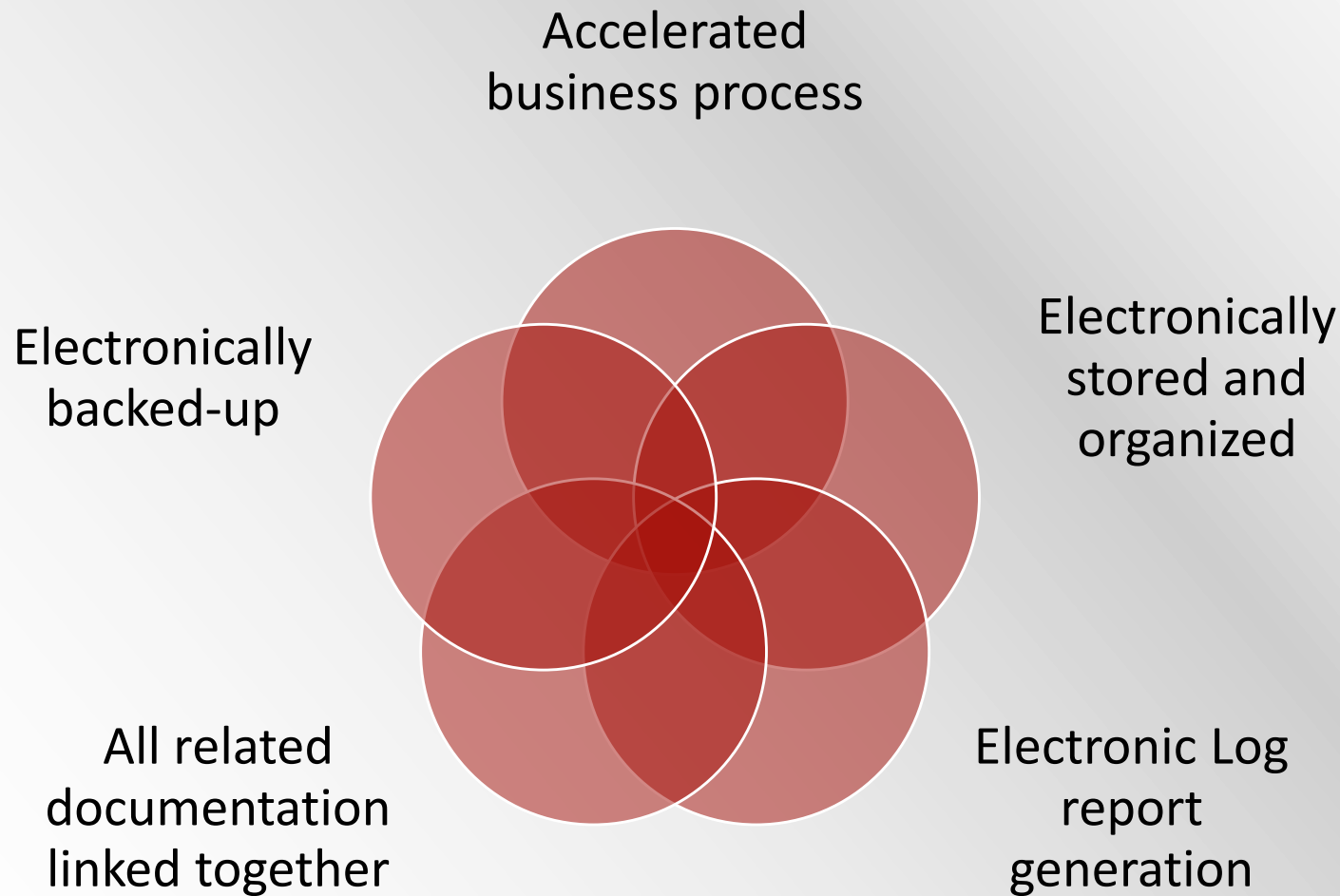Display and search projects by all relevant fields
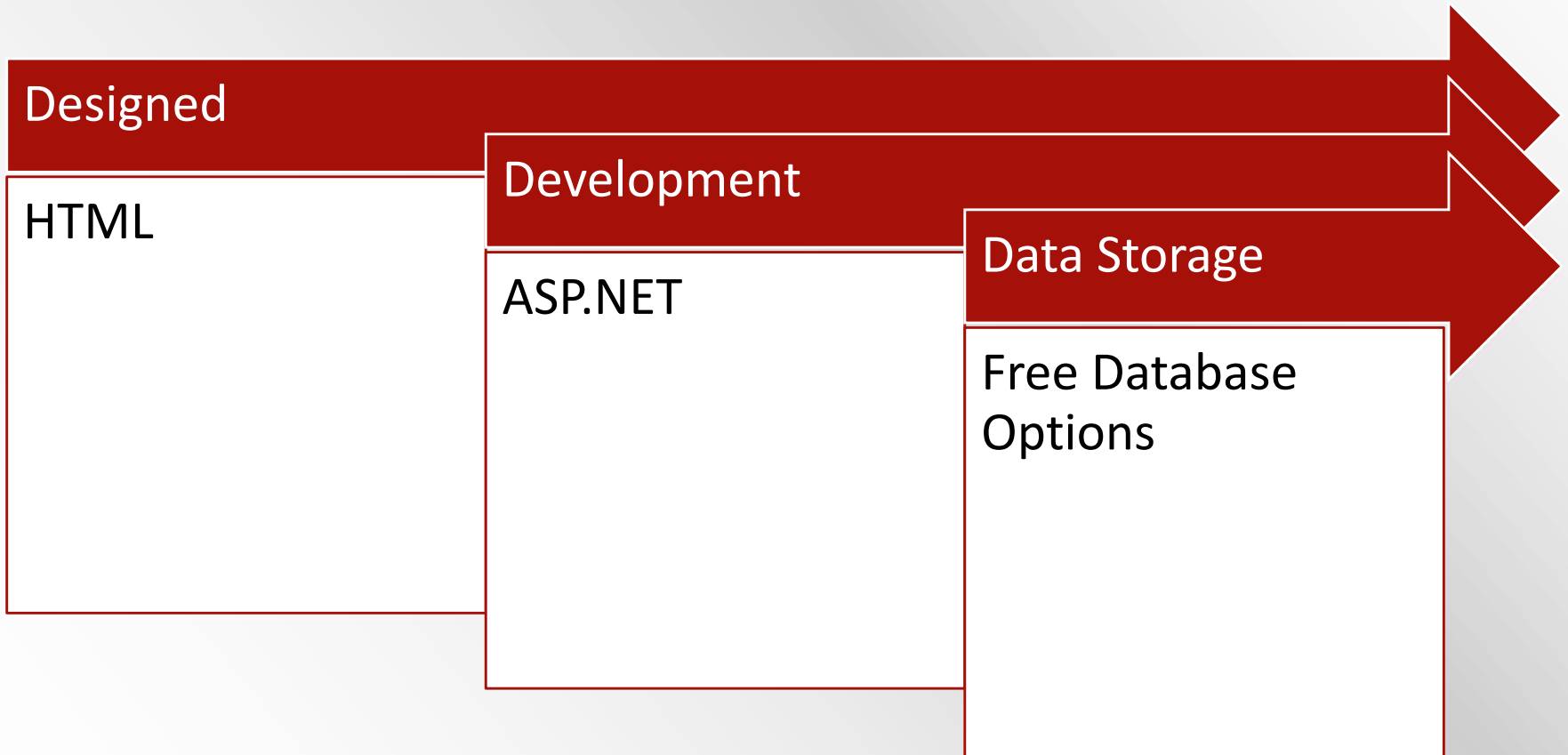
Update project records

Notifications

Clearly identify inactive projects

Generate reports

Key Benefits

Accelerated business process

Electronically stored and organized

Electronically backed-up

Electronic Log report generation

All related documentation linked together

Used Technology

Designed

HTML

Development

ASP.NET

Data Storage

Free Database Options

Conversion

- IBC Biosafety project registration forms
  - *Biosafety Level 1 Registration Form*
  - *Biosafety Registration Form*
  - *Biosafety Registration Addendum: Whole Animals*
  - *Protocol Amendment Request*
  - *Annual Protocol Renewal Request*
- The IBC Coordinator will convert this data by manually entering it into the IBC Registration System using mouse, keyboard, and scanner inputs.

Login Screen

Projects Screen

New Project

View/Edit Project

Search Screen

Search Result Screen

| Home | Add Project | Search | Notifications | [Logout] |

Search Results

	BRF No.	Title	Biohazard	PI	Submission Date	Meeting Date	Approval Date	Approval Status	Department	Building	Room	NIH	IACUC	IRB
☐														
☐														
☐														

Notification Screen

IBC Biosafety Registration System

| Home | Add Project | Search | Notifications | [Logout] |

Notifications

No.	Date	Recurrence	Project No.	Recipients	Comments	Controls
11234	___ / ___ / ___	None				💾
11233	4/19/2006	Yearly	302	tuc13458@temple.edu	Send a whale to Nikita for his birthday!	❌ ✏️
11232	5/19/2007	Yearly	301	tuc13233@temple.edu, tua74399@temple.edu	Send Flowers	❌ ✏️

Footer, Copyright.

Potential Risks

System Support

- Documentation will be provided

Data Loss

- Back-up system included in design

Testing

GUI Software Testing · Usability Testing · Active Testing · Unit Testing · Security Testing

Future Planning

Recap and account for any changes IBC department may encounter over this break

Begin Development Phase on January 22nd

Completion of system by April 2013

Summary

The new IBC Biosafety Registration System will provide:

- Increased productivity
- Improved record accountability
- A backup system to protect from loss of records

These improvements can be achieved at minimal monetary cost