ResearchWeb
Final Presentation

IPRO 321

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Undergraduate Research

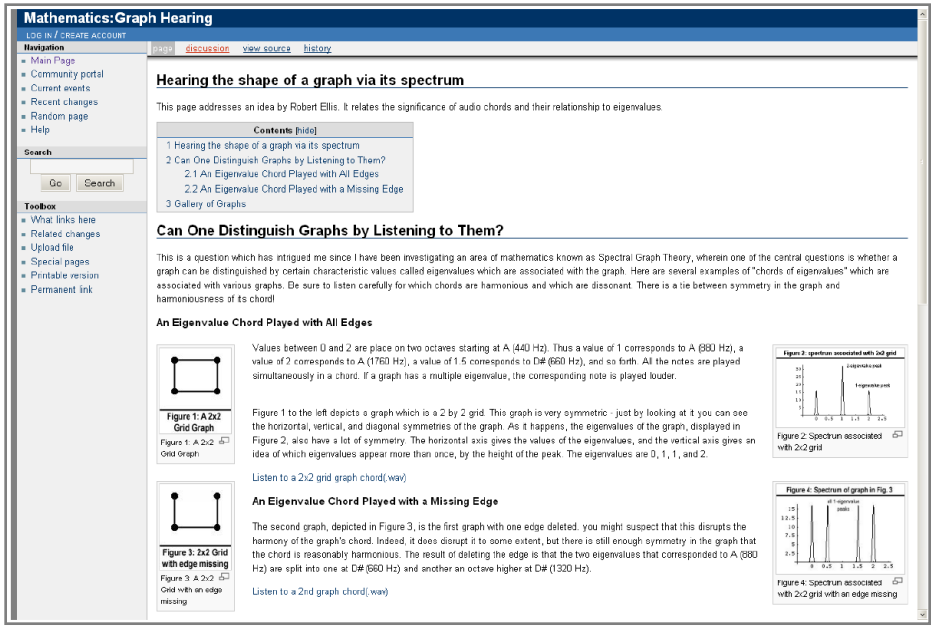
- Exposes students to research process
- Gives students a valuable experience
- Brings together the IIT Community

Problems

- Lack of understanding of research process
- Lack of promotion of research opportunities
- No place for student-initiated research
- No central, online place for undergraduates to display research

Prior Work

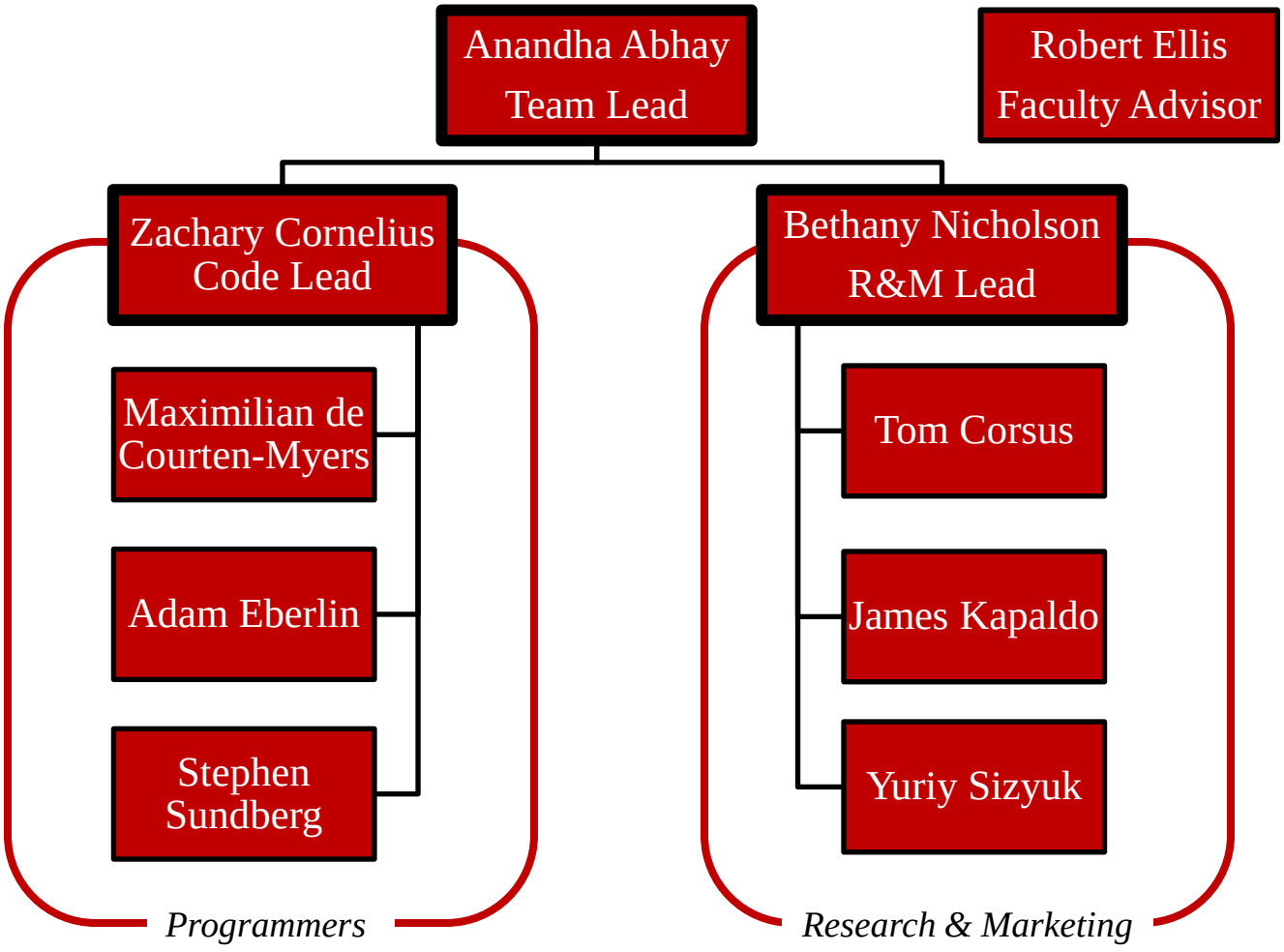
- **Undergraduate (UG) research project**
- **Software specifications**
- **Rapidly developed prototype**



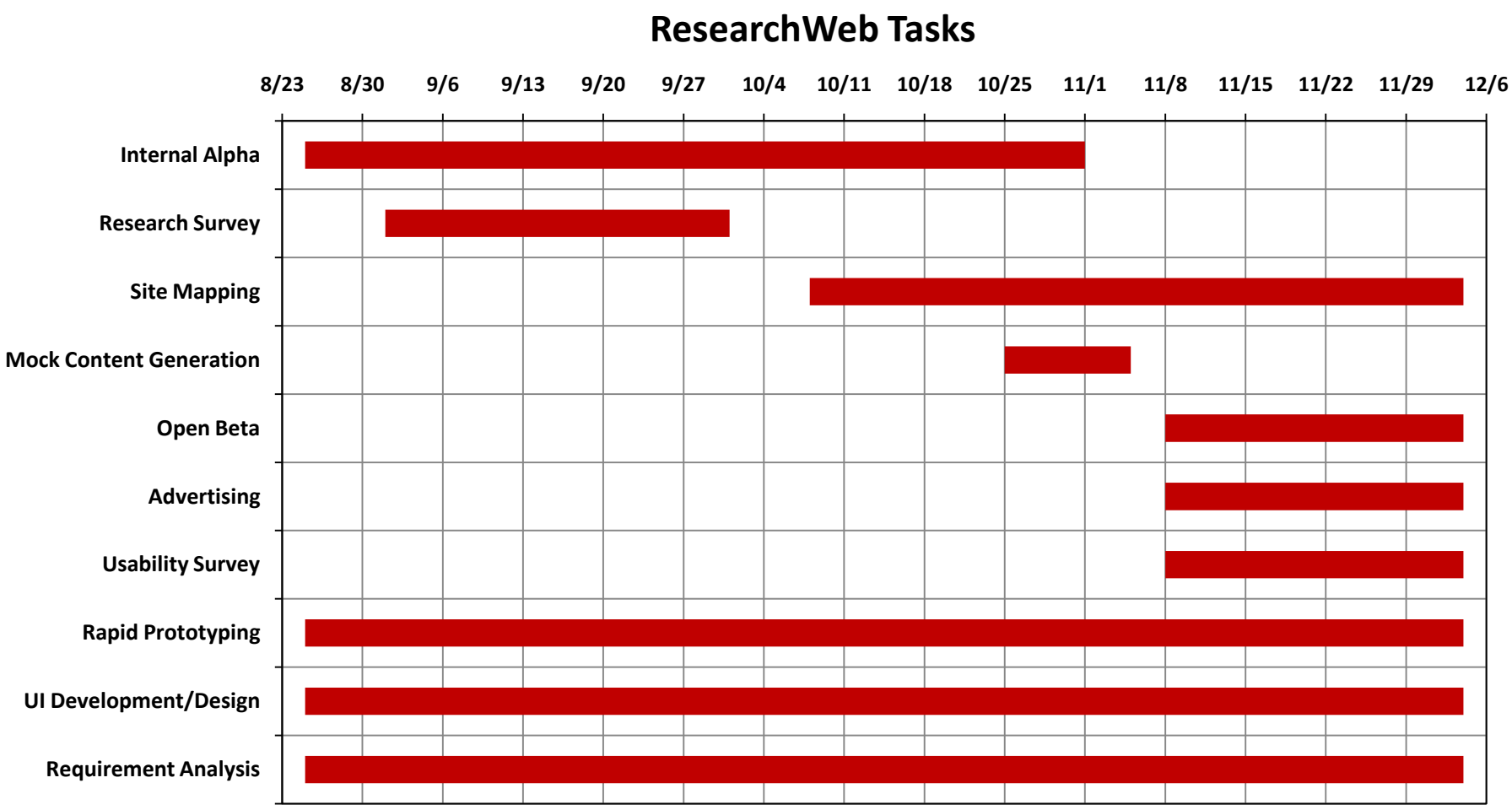
Goals

- Improve and expand UG research at IIT
- Create a website that aids the research process
- Design all site interfaces and features
- Hold internal testing (alpha)
- Hold open testing (beta)
- Launch advertising campaign

Team Organization

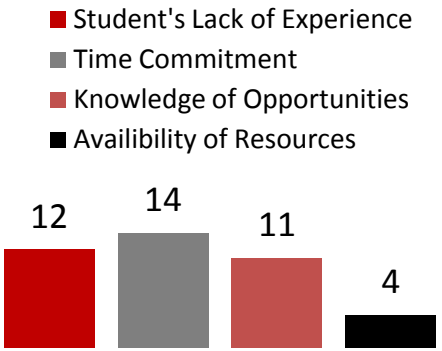


Team Planning

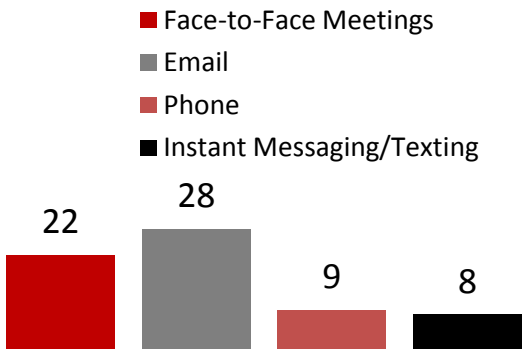


User Survey

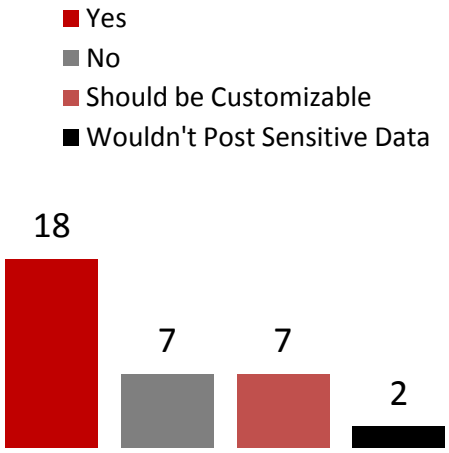
Hindrances to UG Research



Preferred Methods of Communication

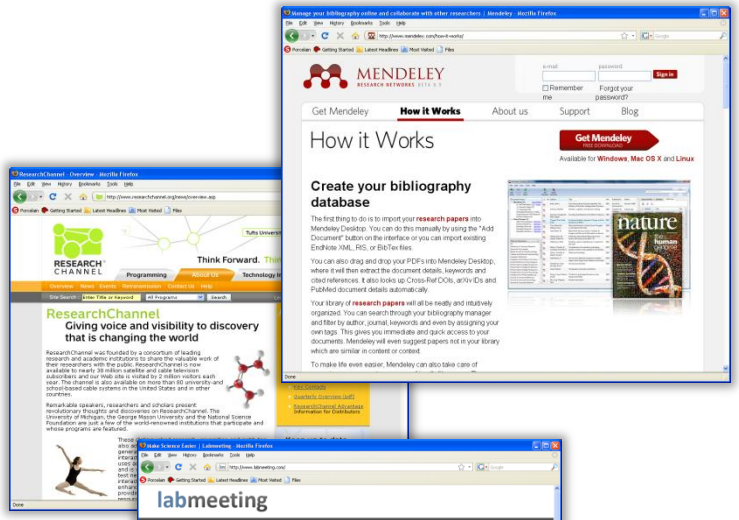


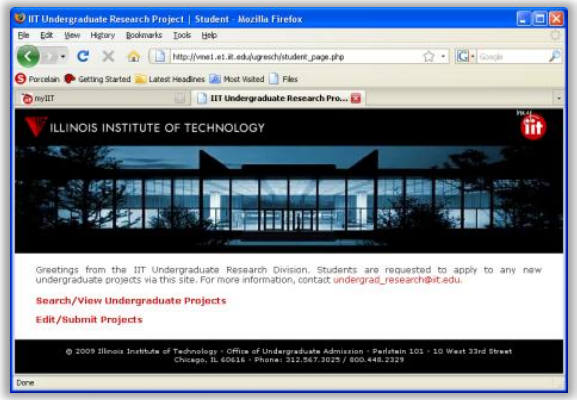
Are Privacy Settings Required?

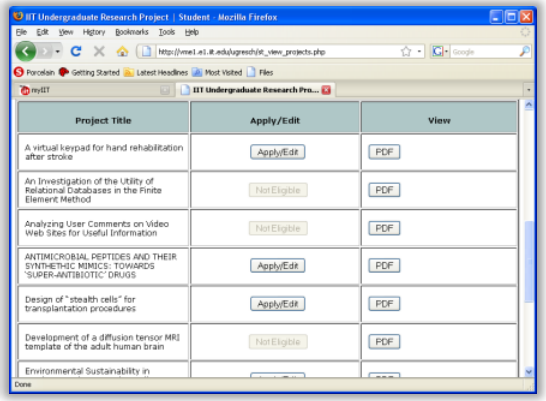


Enticements to Use ResearchWeb

Current Resources







Software

Ruby

Ruby on Rails

Ubuntu

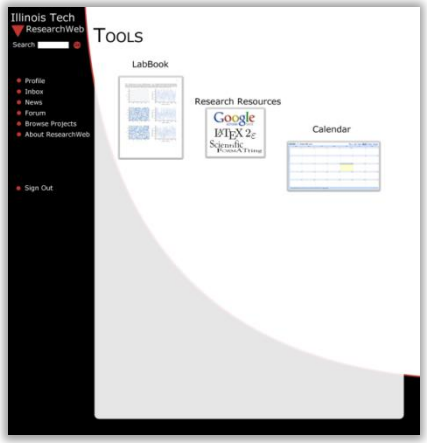
Server

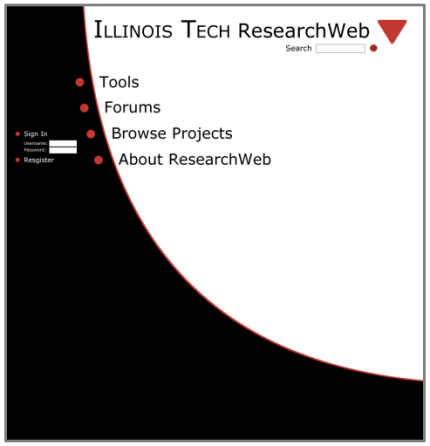
Feature	Original Server	Temporary Server	Current Server	Virtual Private Server
Monthly Cost	Free	Free	Free	$40.00
Student Administrative Access	✓	✓	✶	✓
Secure Location		✓	✓	✓
Reliable Network Connection			✓	✓
Professional Maintenance			✓	✓
Guaranteed Up-time (5 9's)				✓

✶ Students have limited access

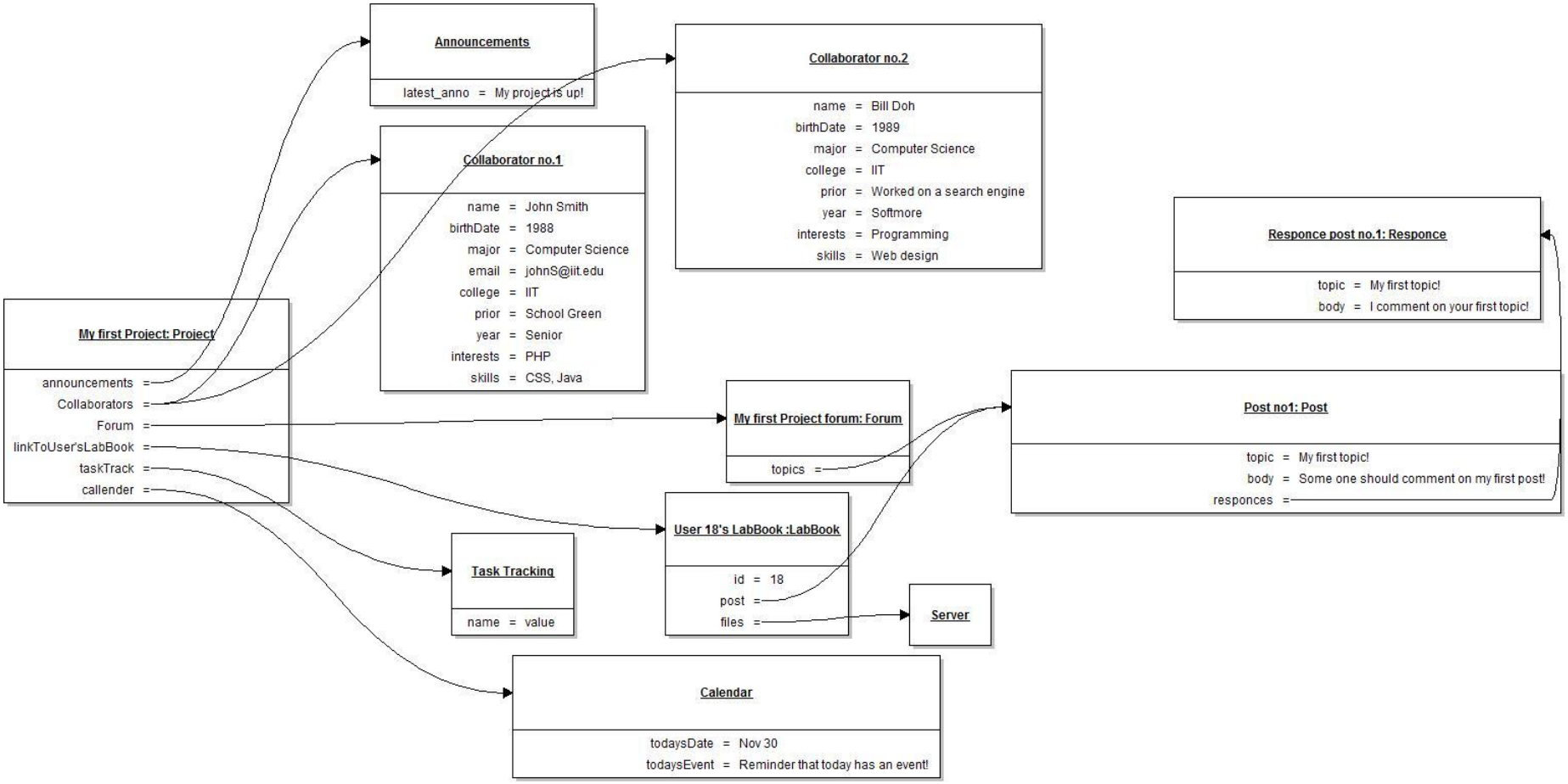
Website Design: Front-End

- **User-centered design**
- **Bulletin board style**





Requirement Specification



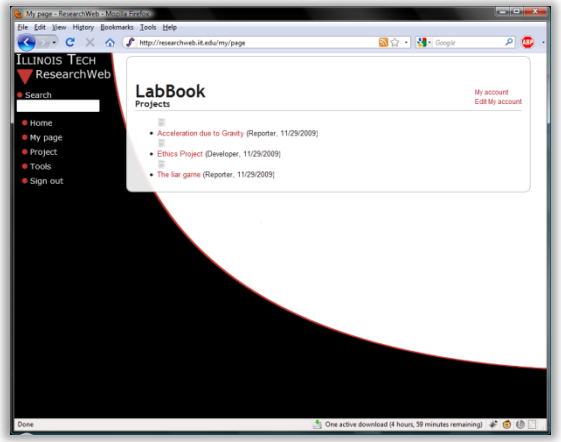
Ethical Issues

- GNU general public license version 2
- Privacy protection
- Content ownership and rights
- Copyright
- Non-disclosure agreement

Site Features

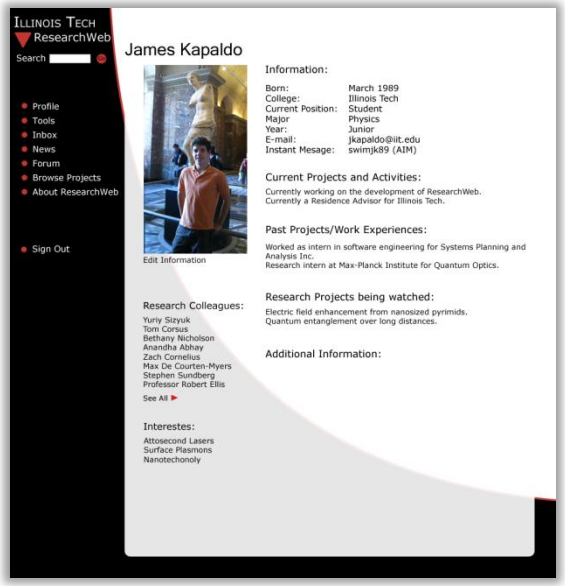
Projects & Lab Book

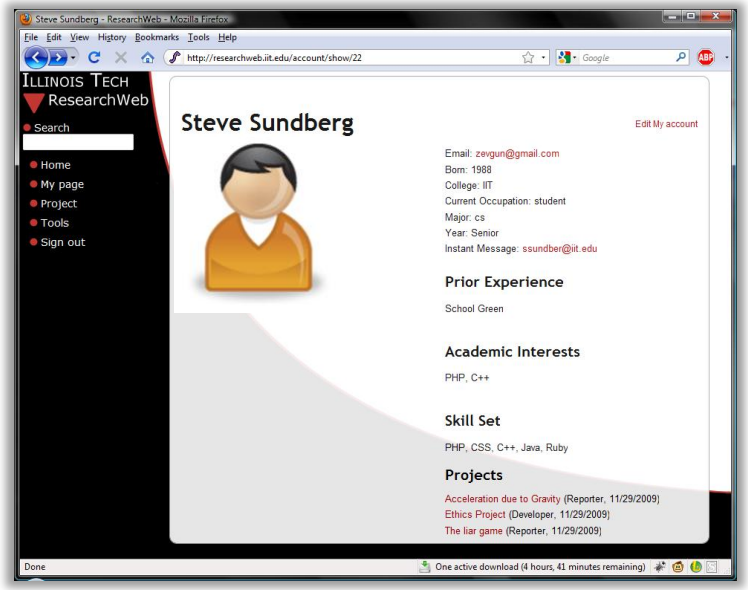
- **Central place for data storage**
- **Private discussion space for collaborators**



Social Networking

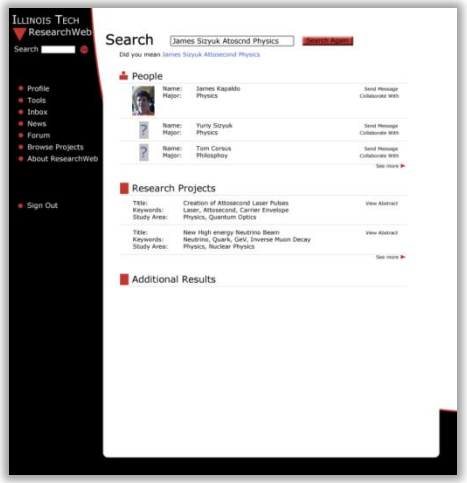
- **Online research community**

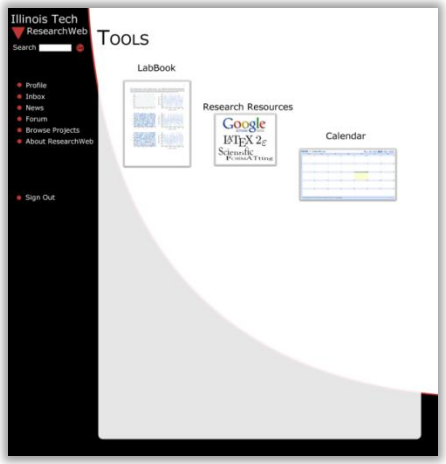


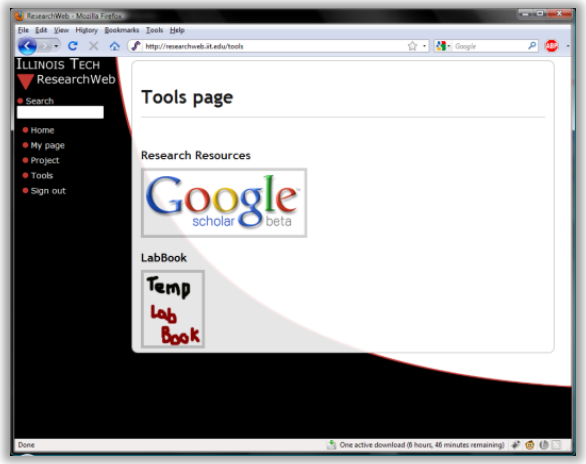


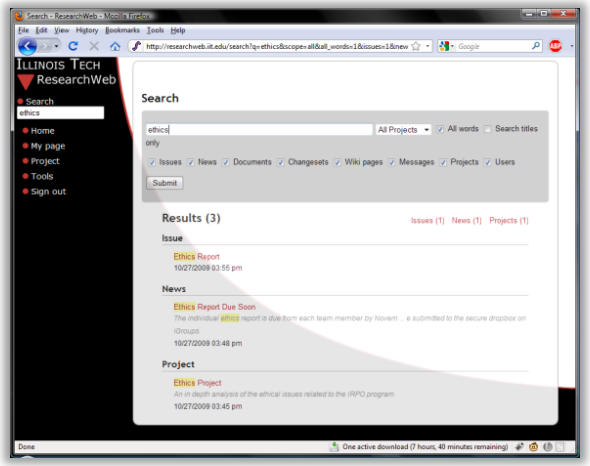
Bare Necessities

- **Search**
- **Research Resources**



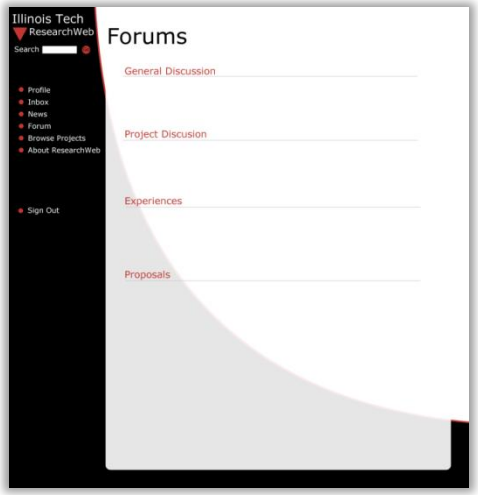






Future of ResearchWeb

- **Additional tools and features**
  Forums, opportunity listings, communication tools
- **Sandbox environment**
- **Flash based voip**
- **Integration of external systems**
- **Public release of ResearchWeb**



Acknowledgements

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– Jeffery Lee, Marketing consultant of BET

– Mark Cooney, current server administrator

Questions?