

Edu-C-Aide

Educational Computerized Aide

<http://www.edu-c-aide.com>



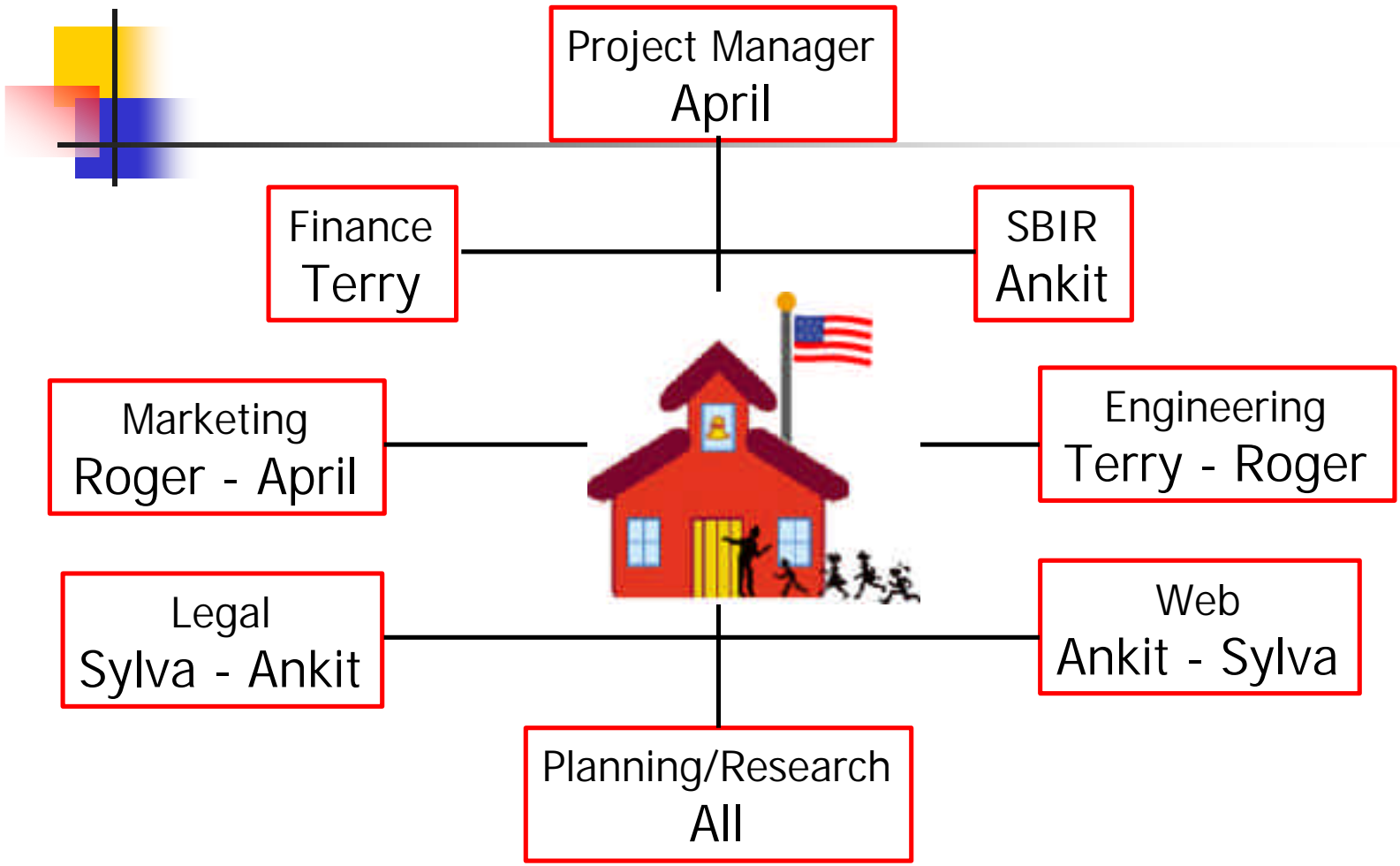
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Special Education

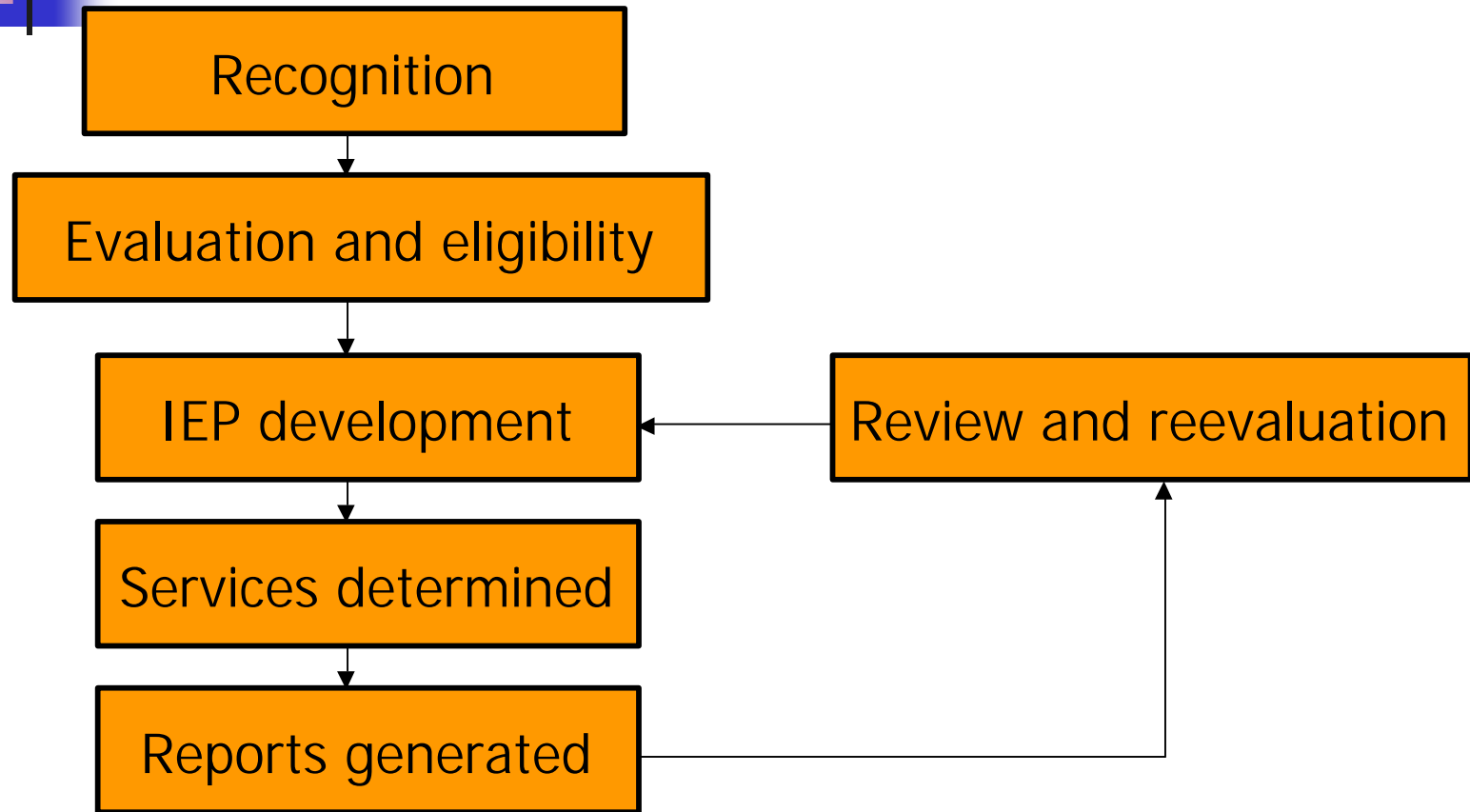
- Types of students
- Disability
- IDEA
- Individualized Education Plan



Types of Special Education Students

- Physically impaired
- Mentally impaired
- Attention disorders

Individualized Education Plan (IEP) Process





IEP Basic Components

- Current student performance
- Annual goals and short-term objectives
- Special education and related services
- Dates and location of services to be provided
- Participation in state and district-wide tests
- Statement of transition services
- Progress measurement



The Problem

The current process by which IEP's are managed overwhelms educators because of the intensive requirements mandated by law for each of the six million special education students in the United States.



Problem Characteristics

- Distribution and access of IEP information limited
- Tracking of progress and changes
- Paperwork redundancy
- Large number of students with special needs
- Risk of lawsuits
- Published survey shows schools lose 73% of court cases

Source: http://www.ldonline.org/ld_indepth/iep/legally_correct_ieps.html



Virginia Statistics

- No. of students: 1,163,094
- No. of spec. ed. students: 161,884
- No. of complaints filed: 193
- No. of hearings filed: 120
- Avg. lawsuit cost: \$50,000-\$100,000

Source: <http://www.pen.k12.va.us/VDOE/Instruction/DP01-02AR.pdf>



Norfolk Statistics

- No. of students: 37,006
- No. of spec. ed. students: 4,764
- No. of complaints filed: 8
- No. of hearings filed: 6
- Legal annual cost: \$250k to \$ 1 million

Source: http://www.cse.org/informed/issues_template.php/648.htm



The Approach

- Centralized database
- Web front-end
- Management of IEPs
- Reports
- Graphs and Statistics
- Queries
- Meets Federal Standards



Technical Approach

- 6 month initial development for base product
- Application maintained on customer resources
- City wide application with central servers



Recommended Minimum Requirements

- Windows NT 4/2000/XP Server
 - 1.2 GHz Processor
 - 512M Ram
 - 80G disk space
- Web Server
 - IIS 5
 - Apache
- Database
 - MsSql 2000
 - PostgreSql
- Cold Fusion MX



Project Status

- Initial project proposal/preparation
- Completed Feasibility presentation
- Currently working on task breakdown
- Preparing SBIR Phases outline
- Milestone presentation



Development Schedule

- Requirements
 - Task breakdown and preparation
 - Hardware and software setup
 - 6 days - 96 man hours



Development Schedule

- Software Development
 - Database development - 160 man hours
 - Software development - 984 man hours
 - QA
 - Concurrent with other development
 - 144 man hours
 - Testing - 416 man hours
 - 107 days - 1,704 man hours



Development Schedule

- Documentation
 - Edit and smooth - 176 man hours
 - Print - 80 man hours
 - 16 Days - 256 man hours



Finance - Costs

- Initial Development
 - Connection - \$900
 - Hardware and software - \$17,596
 - 2 Developers, 2+ yrs experience each
\$104,856
 - Legal fees - \$12,000
 - \$5k cash on hand
 - \$140k



Finance - Costs

- per Customer
 - Installation
 - 2 Developers
 - 6 Weeks
 - \$24,480
 - Training
 - 1 Trainer
 - 2 Weeks
 - \$4,080
 - 1 year help desk
 - 5 hrs/wk
 - \$5,720
 - \$34,280

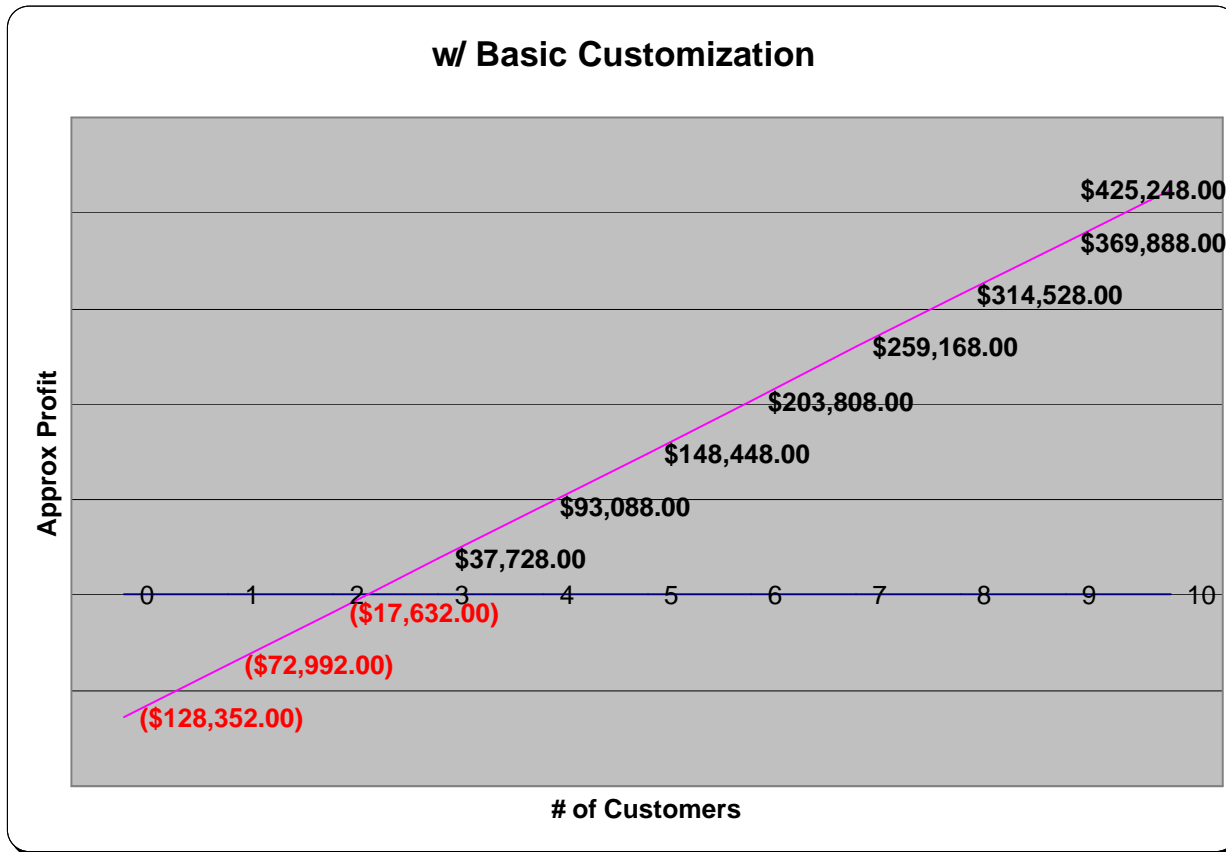


Finance - Customer Charges

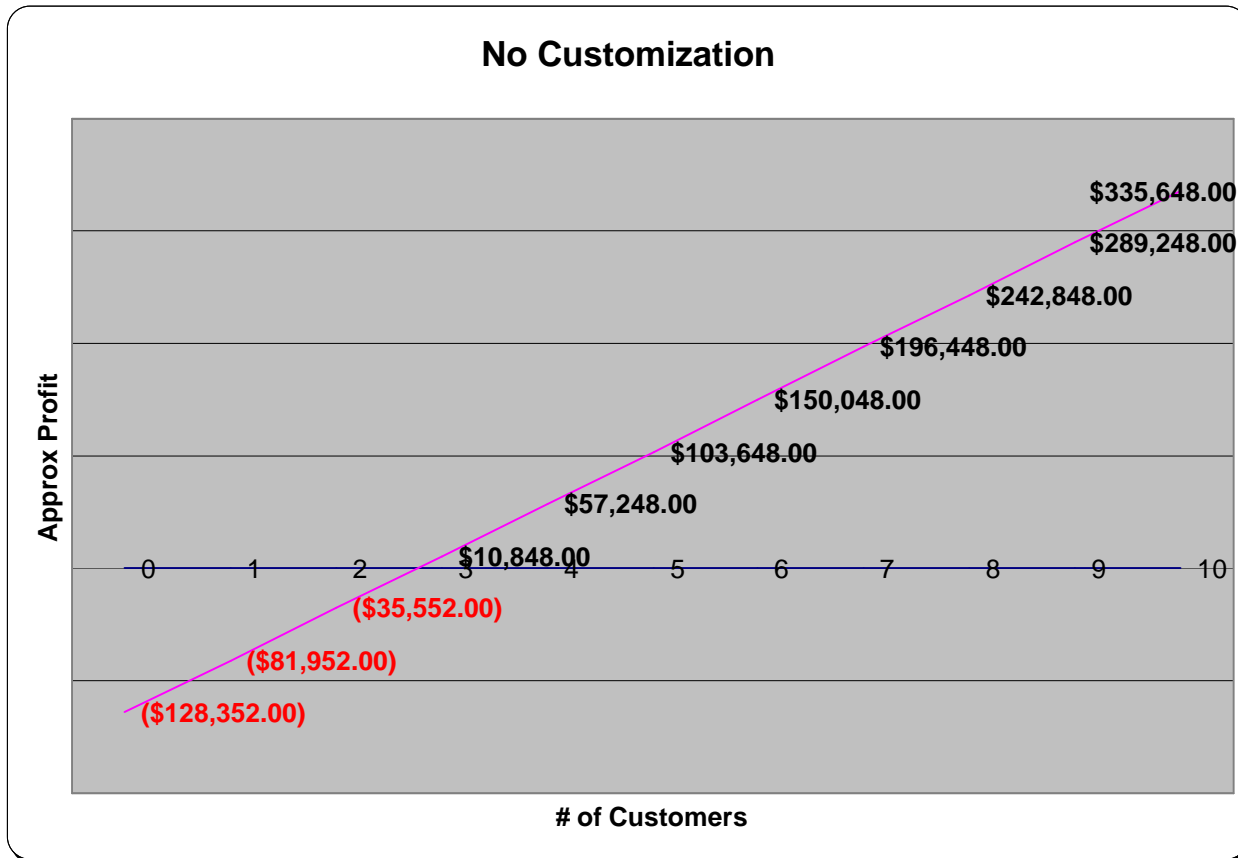
- Installation, training and 1 yr help desk
\$36,400
- Software Package - \$62,000

- Basic Customization
 - 2 Developers
 - 2 Months
 - \$41,600
- \$140k

Breakeven - probable



Breakeven - minimum





Out Years

- Help desk calls
 - \$22/hr cost
 - \$25/hr charge to customer
 - Includes user and tech support
 - [Bighelp, Inc.](#)
 - after initial one-year included help desk
- On-site support
 - \$51/hr cost
 - \$65/hr charge to customer
 - after customer installation and training
- Support Plans



The Outcome

- Track and distribute information
- Reduce redundant paperwork, save time
- Less chance of mistakes and lawsuits



Financial Outcome

- Application cost - \$140k
- Average low for legal costs related to a IEP hearing - \$50k
- Norfolk review
 - Hearings - 6
 - Reduce hearings by 50% =
\$150k saved in 1st year =
Application paid for in the 1st year



Yellow Flags

- Does not provide evaluation of student
- Will not police teachers
- Changes to laws and school system policies
- Changes in technology



Conclusion

The use of the application will provide a more efficient way for school systems to abide by federal standards. As a result, this will minimize the chance of mistakes and lower the risk for a lawsuit.



Resources

- [Office of Special Education Programs](#)
- [Family Village](#)
- [National Education Assoc.](#)
- [LDOnline.com](#)
- [VA Dept. of Education](#)
- [US Dept. of Education](#)
- [Social Security Online](#)
- [The Arc](#)
- [Citizens for a Sound Economy](#)



Appendixes

- Appendix A: Phase I & Phase II Schedule
- Appendix B: Phase III - Software Development Schedule
- Appendix C: Detailed Costs