

Today's Speaker



Presented By: Lee Paul

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Creating Software People Love



With

The Right Strategies
The Right People
The Right Processes
& The Right Tools



To Accelerate the Development of Software People Love!





Mobile Web Windows Integration



Surround's Mission

Develop Faster
Develop Better
Develop More
Develop Smarter



Software At The Speed of Business





4 Tenets of Software

The *4 Tenents of Software* are design principles that denote what it takes to create a great software application.

- Holistic View
- Puts Users into Consideration
- Best Practices
- Maximum Quality and Return

The First Tenet is: Useful

- It's the foundation of a users satisfaction.
- Software should provide some useful
- It should perform the function(s) necessary to complete the tasks
- It should be superior to any other
- The more useful it is the more it will be used

Don't Reinvent the Wheel...



The Second Tenet is: **USABLE**

- More than just Visual. It's how the software works for the user
- Users need to be able to gain productivity
- Perform tasks with minimal effort
- Performs the expected function perfectly

Don't Make Me Think...

The Third Tenet is: Desirable

- Users should choose it over alternative products available to them.
- Find it appealing
- Helps them, makes life/work better
- More likely to dismiss deficiences if the overall experience is acceptable.
- "Software that people proclaim they love"



The Fourth Tenet is: Feasible

- Time
- Cost
- Technical skills
- Available Technology
- All the above must be taken into account and weighed against the return that is gained.
- If the software is not feasible, it should not be created.



In this Session

Ideas for achieving all 4 Tenets



Useful



Desirable



Usable



Feasible

Why are we here today?

Truly effective Software Development doesn't happen by chance.

It's the result of planning and careful adherence to a sound methodology. Surround has the highest expectation for the software that we develop.

Why are we here?

With highly skilled and advanced developers and all that is possible in software today, it, as you can imagine, was a substantial challenge to fully define the expectations for our software.

Through the process we identified hundreds of attributes that needed to be a part of our blueprints.





But, ultimately, as we do with everything, we identified patterns in those attributes and created very clear and easy to follow principals categorized into what we now call:

The 7 Pillars to Accelerated Software Development.

Accelerating Software Development

DEFINING THE PROBLEM

An Ever Increasing Problem

In Software Development the Top Complaint is...

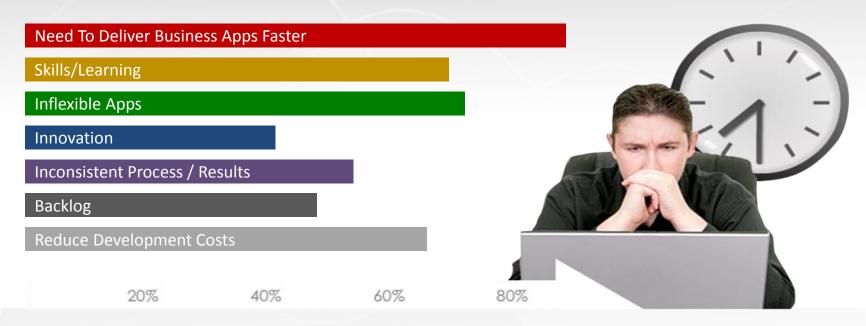


Software can't keep up!

Developers are buried

Software is stays in development

When It Should Be Helping Move Your Company Forward



Business Software

Business Environments are Evolving and the demand for software to do more is growing.



You need <u>agile</u> software so it adapts to business needs, is productive and most important, **simple to use.**

Your development is falling behind!



The Development and Delivery of key software applications isn't keeping pace with business needs.

Many businesses aren't progressing as fast as they could and should.

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It's only getting <u>HARDER</u>?



- More Types of Systems
- More Integration
- More Devices
- More Diverse Requirements

- More Companies to Work With
- More Technologies
- More Productive Software
- More, More, More...



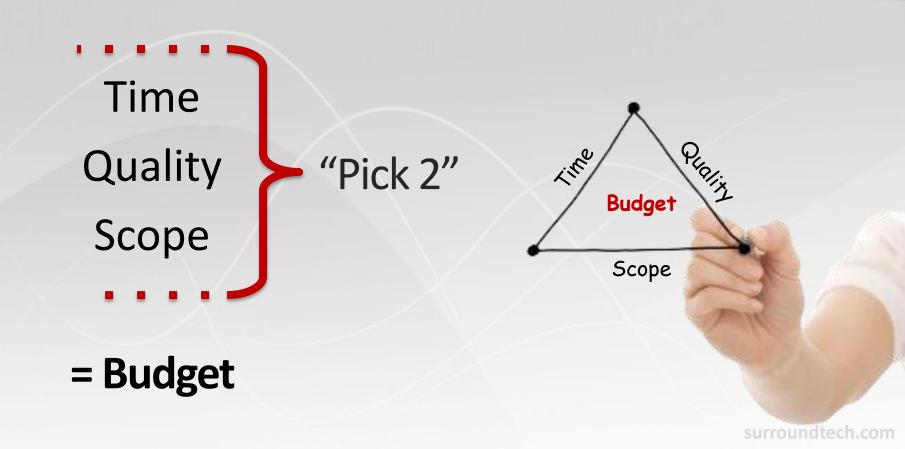
All Software Developers have the same goal when developing:

To make the best applications possible!

...Unfortunately, they rarely have time or budget for that.

Can you Relate?

The Development Trade-off





Problems Plaguing Software Development

Software Development Problems

- Long Software Release Times
- Long Waits for Requested Changes
- Significant Project Backlog and Reduced Delivery Capacity
- Lack of Return and Significant Total Cost of Ownership (TCO)
- Limitations and Proprietary Lock-Ins
- Changes are often High Risk and Disrupts Business
- Software from the dark ages.
- No ability to adapt to changing technology.
- Decreased Productivity and Adoption.
- Lack of Application Monitoring, Management & Control





Accelerating Software Development

DEFINING THE REQUIREMENT



4 Players in the Development Process

The Business

They invest in software to meet a business need.

Users

Their <u>use</u> of the software provides the <u>return on the investment</u>.

Developers

They take the investment and deliver the software

Providers

They provide software and tools to <u>decrease the investment</u>, <u>increase</u> <u>the return</u> or both

Focus on what's important

Exceed expectations.

Keep development within budget and on schedule.

Gain a *process* for fast, quality, repeatable and continual development.

Continue to *improve and adapt* your process.



Stay Ahead



Develop Smarter



Produce *more* applications
Produce them *better*Produce them *faster*

Develop smarter.

Make an Investment, Measure the Return

- Transform how to envision, develop, and use software to drive greater growth and profit.
- Realize the full value, return, and potential from software investments.



Accelerating Software Development

ADOPTING A STRATEGY





Top 7 Pillars: For Accelerating Windows, Web & Mobile Development

- 1. Productive User Experience
- 2. Process, Methodology & Standards
- 3. Software Design & Architecture
- 4. Developer Efficiency
- 5. Application Interoperability
- 6. Modular Software Snap-Ins
- 7. Leverage Existing Software Assets

7 Pillars for Accelerating Software Development



1. Productive User Experience

A great application helps users succeed in the easiest and fastest way possible.



Business software development is always about the ROI and nowhere can this be better achieved than in lasting, daily end-user productivity.

Productive UX Yields Daily Higher ROI

Software that is easy, intuitive and productive to use will

- Accelerate adoption
- Increase production
- Better service
- Improve customer satisfaction
- Boost Revenue

- Reduce training time
- Lower support costs
- Lower personnel costs
- Less costly Errors

Productive User Experience



Business software development is always about the ROI and nowhere can this be better achieved than in the resulting end-user productivity. The premise is simple. Software that is easy, intuitive and productive to use accelerates software adoption, reduces learning curve, increases productivity and provides better service to your customers and other personnel.

As defined by International Standards Association, usability is the "effectiveness, efficiency and satisfaction with which a specified set of users can achieve a specified set of tasks in a particular environment."

A Usable product is easy to learn, hard to forget, minimizes burden, reduces workload, anticipates and forgives mistakes, does what the user wants — when the user wants it, always provides feedback and is satisfying, perhaps even fun, to use. Users can find what they need, learn what else is there, use the tool to its fullest, do it all without help and leave feeling their time was well spent.

For a business, usable software eliminates training time, lowers support and personnel costs, minimizes costly human errors, improves customer satisfaction and boosts the resulting productivity and revenue. In short, there is lasting daily ROI found in optimizing usability. A Productive User Experience:

- Increases user adoption: A productive UX is faster and more gratifying to learn and use because it help users instead of getting in the way.
- Decreases user effort: A productive UX require less effort to use, allowing users to focus their energy on business.
- Increases user speed and quality: A productive UX helps users perform their common tasks faster, while at the same time decreasing the number of mistakes they make.
- Ongoing ROI: Developer productivity gains are great, but maximizing end-user productivity keeps giving and giving.



1. Learnability

Learn the business, use the software

2. Memorability

Turn even complex business processes into easy ones

3. Findability

Find what you need fast

4. Discoverability

Get anywhere from anywhere

5. Efficiency

Ready. Set. GO!

6. Accuracy

Errors cost time and money.

7. Multi-tasking

Do more. Waste less.

8. Subjective End-User Satisfaction

A happy user is a happy business, and a happy business is a happy developer.



2. Process, Methodology & Standards
Proven practices work. Use them.

Pillar 2: Process, Methodology & Standards



Define, Establish and Follow:

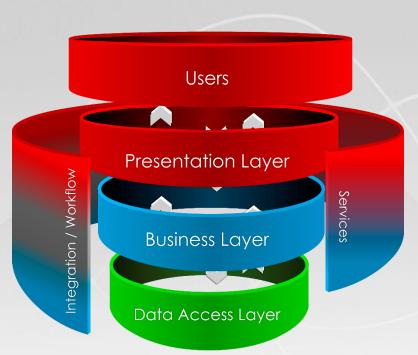
- An Software Development Process from concept to deployment to long term maintenance and enhancement
- Software Development Standards based on proven best practices.
- Structured Development Methodologies that optimize developer efficiency and focuses it on business functionality

Create guidelines to developing software responsibly and effectively with short- and long-term considerations for both the user and other developers that play significantly to the return on investment and ongoing total cost of ownership.



3. Software Design & Architecture Spend less time on set-up.

Pillar 3: Software Design & Architecture



Creating a well-defined agile software design and architecture will enable developers to spend more time on innovative business functionality and less time on the underlying technology. It will enable the business to adapt quickly to changing technology shifts with lasting software and low total cost of ownership.



4. Developer Efficiency

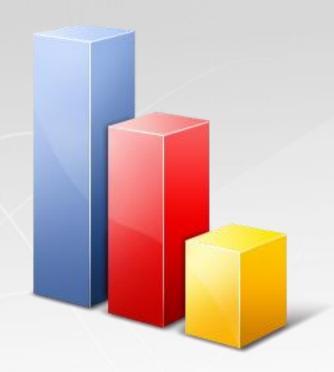
Enable the developer to efficiently and effectively deliver that User experience, using the defined process, standards and methodologies and with the correct software design and architecture

Pillar 4: Developer Efficiency

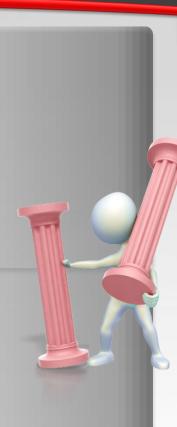
Making developers as efficient and effective as possible is essential.

It allows software to be developed faster and at lower cost, makes more applications viable, and delivers greater impact on the overall business.

Utilize tools to shift the time typically spent on handtooled plumbing of code and maintenance to new business specific innovative software development.



- Productive User Experience
- Standards & Methodologies
- Software Design and Architecture
- Developer Efficiency
- Application Interoperability
- Reusable Modular Snap-ins
- Leverage Existing Software Assets





5. Application Interoperability

You must be able to adapt to changing needs in order to survive.

Pillar 5: Application Interoperability

Complications such as competitive pressures, partner demands, strategic initiatives, mergers and acquisitions, and more arise and add levels of complexity and technologies to a growing array of disparate systems.

Today's software must be open and agile enough to pull them all together.



6. Modular Software Snap-ins

Don't reinvent the wheel over and over.

Pillar 6: Module Software Snap-ins

Another of our mantras is "Reuse, Reuse, Reuse".

That should apply from the smallest control to entire applications.

This is where Architecture s key once again. A modular architecture plays such an important role for allowing developers to easily snap in and integrate other software.





7. Leverage Existing Software Assets

Application integration that combines every system you have into one seamless user experience.

Pillar 7: Leverage Existing Software Assets



Reengineering existing software can be incredibly difficult and wasteful. Don't rebuild it unless it is cost effective or business demands that you must.

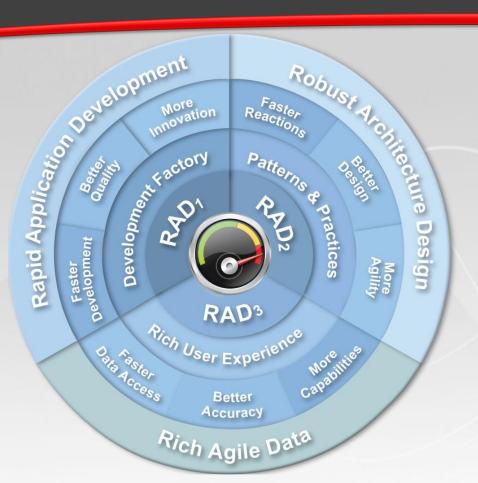
However, you can breathe new life into the aging assets and repurpose the technology into newer applications.

Creating Software Your Users Will Love

PUTTING IT TO PRACTICE



RAD x 3

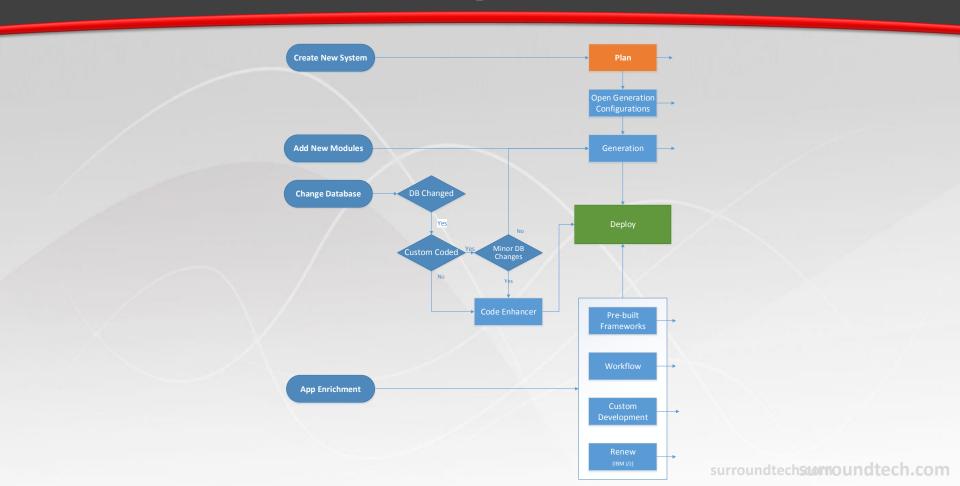


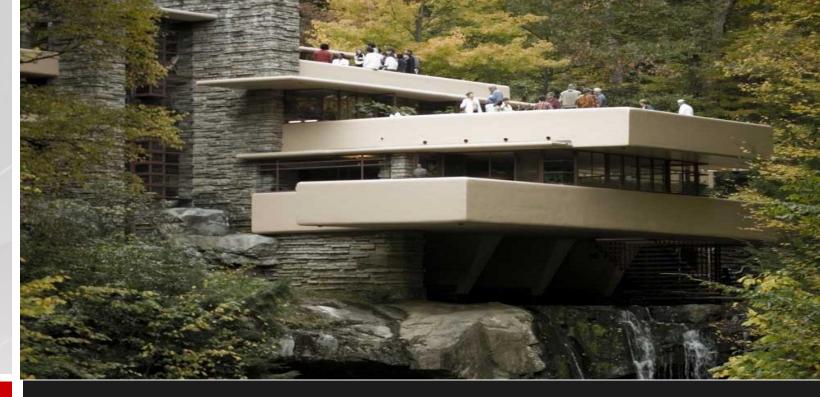
The Complete Approach to the Application Development Lifecycle

Accelerator RAD₁ - Rapid App Dev



Accelerator RAD₁ - Rapid App Dev





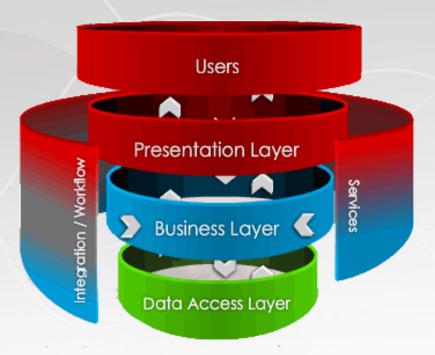
Architecture

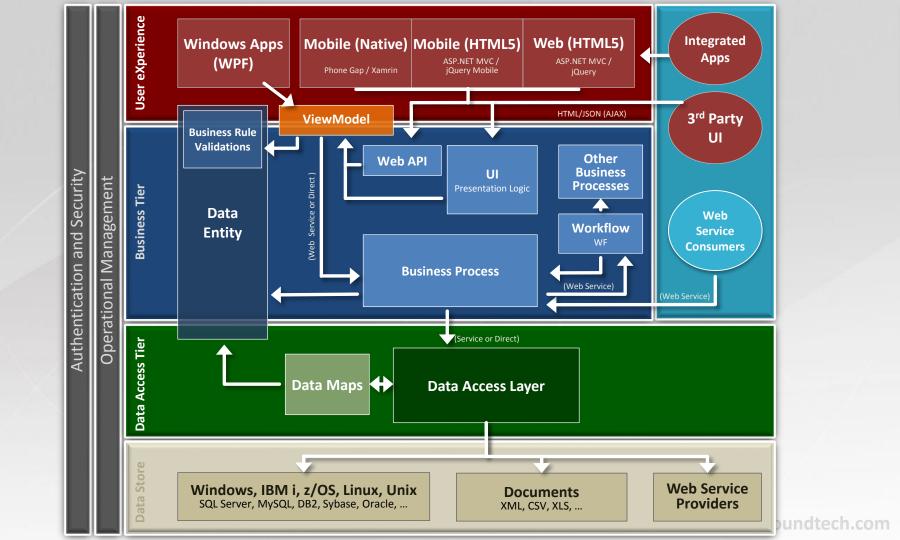
Build to Last ● Built for Change ● Built for Business, Developers and Users Software lifetime measured in decades

Accelerator RAD₃ - Robust Arch. Design

Architecture

The Great Enabler of the Agile Enterprise





Accelerator RAD₃ - Rich Agile Data





- Robust User Experience (User Customizable)
- Cross Platform UI (Desktop, Browser & Mobile)



- Search & Filtration capabilities
- Microsoft Office integration
- Maximized efficiency in *Time to Task*

Out-of-the box





Enriched





Creating Software People Love



Strategy People Process Tools

Food for thought

If you could develop faster with better quality and more necessary functionality, how many more projects could be useful, usable, desirable and feasible.

Create Software Users Will Love



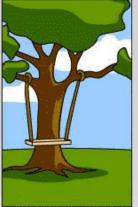
Believes that you can be a software superhero by creating software your users will love, and your business will see value and return.







How the customer explained it



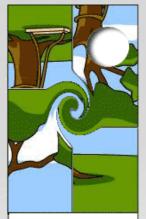
How the Project Leader understood it



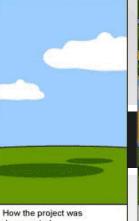
How the Analyst designed it



How each developer integrated with others



How QA got the 1st, 2nd, and 3rd build



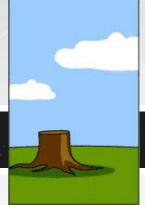
documented



How the Business Consultant described it



How the customer was billed



How it was supported



What the customer really needed

Thanks for listening



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