**Company Description**

***Stucess*** brings together the best of learning management systems (LMS) and assessment solutions into one complete resource for teachers, students, principals, and administrators. With seamless connections between assessments and curriculum,Stucess tailors instructional content to student comprehension, delivering a truly personalized learning experience. The company’s name is Stucess. There is only one location. There are 500 employees. The company sells software called Stucess. The transactions are according to the needs of the company.

Scope Definition (FAST Phase 1)

Stucess unifies the data, curriculum and tools teachers, schools leaders and administrators use every day by integrating all of a district’s software and systems, including third-party applications and open education resources, into one fully secure and easy-to-use, cloud-based platform. The powerful single sign-on solution is deployed by districts across the nation to enhance communication, transition to common core, plan and evaluate curriculum, manage assessment and monitor student progress in real time.   
  
Educators will love Stucess because it simplifies their workflow, increases efficiency in the classroom and empowers them to use the resources and strategies that work best to improve instruction and outcomes for each student. With Stucess, educators are able to connect the right content to the right student at the right time all in an effort to accelerate achievement, while also providing parents and students greater visibility into performance and progress.   
  
Stucess solves for critical issues in education like data accessibility, common core implementation and compliance reporting, as well as streamlines systems by consolidating critical information and resources at all levels – classroom, school and district. Through shared dashboards, all stakeholders can immediately access the information they need to act in one central platform.   
  
Additionally, Stucess is compatible across operating systems and not only is the platform accessible from any device, it can communicate with technology used in the classroom, eliminating the need for teachers to manually input the data generated by students each day as they complete exercises, assessments and assignments either designed in Stucess or from a third-party application. It will take about 6 months to design. The cost will be $500,000. There will be 500 employees.

Problem Analysis (FAST Phase 2)

1. The current system doesn’t challenge students to learn, grow, and innovate.
2. Students will be able to view their assignments.
3. Students will be able to make necessary adjustments.
4. It’s difficult to analyze student data holistically.
5. Administration will be able to view student data easier.
6. Teachers will be able to make lesson adjustments easier according to the data.
7. It’s complicated to transfer student performance insights easily to the classroom.
8. Teachers can offer assistance to each other easier.
9. Student information from the previous teacher is readily available.
10. Parents can’t see their child’s progress.
11. Parents can get more involved with child’s education.
12. More information is readily available to help parents with their child’s education.
13. It is difficult for Administration to view and assist their staff with instruction issues.
14. Administration will be able to view and assist their staff with instruction issues.
15. Administration can schedule professional development more efficiently.

Requirement Analysis (FAST Phase 3)

**Parent Functionality**

**Log into account**

**Stay in Touch with Teachers**

Teachers are the best educational resources for both parents and children. An instructional management platform enhances your accessibility to your child’s teacher. Send questions or messages quickly and effectively; get clarification on an assignment your child is working on; or receive feedback on how your child is performing in class. Parent-teacher communication strengthens the connection between home and school.

**Monitor Your Child’s Grades**

Your added layer of support goes a long way for your child’s grades. Check your child’s current progress by quickly logging in to the gradebook. If your child is excelling, falling behind, or struggling with a specific subject, you won’t lose time identifying the assistance he or she needs.

**Help Your Child with Class Material**

Homework help becomes easier when you’re in tune with what your child is studying. View class assignments and lessons digitally, or head over to your child’s class website for additional insight and resources posted by their teacher.

**Attendance**

A significant factor of student success is attendance. Your teachers know that missed class time often means lower test scores for students. With a system like Stucess, backtracking and communicating with absent students is a snap. Parent involvement is crucial here, and parent alerts regarding excessive absences can help students get back on track.

**Gradebook**

Posting timely grades gives students ongoing feedback and a benchmark to improve. With their own accounts, students who already know how they’re doing feel more comfortable approaching their teachers about grades. Parents can stay in tune with their children’s progress throughout the year by monitoring whenever it’s convenient, which adds another layer of support and accountability.

**For Parents**

Parents who are involved in their children’s education drastically boost student outcomes. Before the school year kicks off, meet with new and returning parents to refresh them on the benefits and opportunities of Stucess.

**Assignments**

To increase parental involvement, teachers can give parents access to class assignments. Parents then see what their children’s assignments are and what they’re expected to learn. This promotes interaction and education at home, enhancing the mastery of student work.

**Class Websites**

Class websites are a central hub of online activity. Students and parents gain extended access to the most valuable resource in the classroom: their teacher. Stucess makes every parent aware of the relevant websites so they can connect with digital content, tools, and class activities to further aid their children in school.

**Student Functionality**

**Log into account**

**Stay in Touch with Teachers**

Teachers are the best educational resources for students. An instructional management platform enhances students accessibility to their teacher. Send questions or messages quickly and effectively; get clarification on an assignment the student is working on; or receive feedback on how the student is performing in class. Student-teacher communication strengthens the connection between home and school.

**Monitor Grades**

The added layer of support goes a long way for the student's grades. Students can check current progress by quickly logging in to the gradebook. If the student is excelling, falling behind, or struggling with a specific subject, the student won’t lose time identifying the assistance he or she needs.

**Student help with Class Material**

Homework help becomes easier when the student is in tune with their studies. Students can view class assignments and lessons digitally, or head over to the class website for additional insight and resources posted by their teacher.

**Attendance**

A significant factor of student success is attendance. Your teachers know that missed class time often means lower test scores for students. With a system like Stucess, backtracking and communicating with absent students is a snap. Parent involvement is crucial here, and parent alerts regarding excessive absences can help students get back on track.

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**Class Websites**

Class websites are a central hub of online activity. Students gain extended access to the most valuable resource in the classroom: their teacher. Stucess makes every student aware of the relevant websites so they can connect with digital content, tools, and class activities to further aid them in school.

**Principal Functionality**

**Update user information**

**Create or delete user accounts**

**Add or Remove user privileges**

**Teacher Functionality**

**Create or delete user accounts**

**Add or Remove user privileges**

**Update user information**

**Strategic/Analytic Functionality**

**Login counter**

Reports will be generated for daily, weekly and monthly for use of the software.

**Feedback**

Parents will be able to communicate any concerns, questions, and/or recommendations on the feedback page.

Update/Updated student Information

privileges

privileges

Add, remove or modify

privileges

Administrative

Principal

accounts

accounts

Update privileges

Create, delete or modify accounts

Teacher

Update accounts

Update/Updated school information

attendance

attendance

Update attendance

Take or modify attendance

grades

School Accounts

View student info

Principal

assignments

Teacher

Student Accounts

Create or modify Assignments /Resource Websites

assignments

Parents, Students and other Teachers collaborating with Teachers

grades

grades

Update/Updated student Information

grades

Input or modify grades

communication

Logical Design

(FAST Phase 4)

View info

Login counter

login requested

communication

counter

View info

feedback

communication

Provide Feedback

Students

Parents

Decision Analysis (FAST Phase 5)

**Technical Feasibility**

The proposed technology for the defined system is PHP, MySQL, Javascript,HTML and CSS. All of these products have been on the market for a number of years. The maturity level of these products are not considered a risk due to the current technical staff being familiar with the use of these products. Stucess institutes a transition process that is guided in a series of logical steps by an account manager that is dedicated to each particular school. All hardware and software currently being used will have no compatibility issues with the proposed technologies. A simple algorithm will be used to integrate the single-sign-on, other curriculum providers, other student information systems and active directories.

**Operational Feasibility**

The performance of Stucess will cut the amount of time Educators spend on data and allow them to concentrate on other needed areas of education. Also, information won't be difficult to produce, data can be captured in time to be useful and data will be well organized. Economically costs of materials are lowered and new markets can be explored. Controlling the data using Stucess will bring more data security and will lessen crimes such as fraud that are committed against student data. Efficiency will improve with less materials and effort being required to complete tasks. The service of Stucess will be easy to learn, flexible to change and compatible with other upcoming systems.

**Economic Feasibility**

The approximate cost to develop will be $500,000. The payback is approximately in 2.2 years. The Net Present Value is approximately $425,000. After researching the cost in depth, $500,000 will still be sufficient enough to design the Stucess information system. There are no known additional charges that will be incurred due to building this system.

**Schedule Feasibility**

The timetable for Stucess to be developed has not changed. The desirable timetable for completion is still 6 months to deliver a properly functioning system. In the allotted time, Stucess still will solve for critical issues in education like data accessibility, common core implementation and compliance reporting, as well as streamline systems by consolidating critical information and resources at all levels – classroom, school and district.

Physical Design and Integration (FAST Phase 6)

**ERD**

Principals

Administrative

Teachers

Parents

Students

**Relational Database Table Definitions**

|  |  |  |  |
| --- | --- | --- | --- |
| ***Login***  Username\_id  Password  Log\_counter  CHAR description | ***Account***  Create\_acc\_id  Delete\_acc  Modify\_acc  CHAR description | ***Privilege***  Add\_priv\_id  Remove\_priv  Modify\_priv  CHAR description | ***Assignment***  Homework\_id  Project  Resource\_site  CHAR description |
| ***Student\_info***  Social\_security\_id  Last\_name  First\_name  Middle\_initial  Street\_address  City  State  Country  Zip\_code  Phone\_number  Date\_of\_birth  Gender  CHAR description | ***Attendance***  Present\_atten\_id  Absent\_atten  CHAR description | ***Communication***  Email\_id  Live\_chat  Feedback  CHAR description | ***Grade***  GPA\_id  marking\_period1  marking\_period2  marking\_period3  marking\_period4  CHAR description |

**Method Signatures**

***Login***

String getUsername\_id(Username)

String getPassword(Password)

Int getLog\_counter(counter)

***Account***

Boolean isCreate\_acc\_id(Create)

Boolean isDelete\_acc(Delete)

Boolean isModify\_acc(Modify)

***Privilege***

Boolean isAdd\_priv\_id(Add)

Boolean isRemove\_priv(Remove)

Boolean isModify\_priv(Modify)

***Assignment***

string getHomework\_id(Homework)

string getProject(Project)

string getResource\_site(Resourcesite)

***Attendance***

Boolean isPresent\_atten\_id(Present)

Boolean isAbsent\_atten(Absent)

***Communication***

String getEmail\_id(Email)

String getLive\_chat(Live)

String getFeedback(Feedback)

***Grade***

String getGPA\_id(GPA)

String getmarking\_period1(markingperiod1)

String getmarking\_period2(markingperiod2)

String getmarking\_period3(markingperiod3)

String getmarking\_period4(markingperiod4)

***Student\_info***

string getSocial\_security\_id(Socialsecurity)

string getLast\_name(Lastname)

string getFirst\_name(Firstname)

string getMiddle\_initial(Middleinitial)

string getStreet\_address(Streetaddress)

string getCity(City)

string getState(State)

string getCountry(Country)

string getZip\_code(Zipcode)

string getPhone\_number(Phonenumber)

date getDate\_of\_birth(Dateofbirth)

string getGender(Gender)

**User Interface Specification**

Stucess

Stucess Login

Username

Password

Keep me logged in on this computer

Submit

Lost Password - HTTPS Secure

Stucess

Gradebook

Attendance

Assignments

Students

Feedback

Communicate

Settings

Stucess

 Welcome, Harry Car

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Marking Period 1 | Marking Period 2 | Marking Period 3 | Marking Period 4 | GPA |  |
| 80 | 84 | 77 | 89 | 83 |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

Stucess



|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 10/01/2016 | 10/02/2016 | 10/03/2016 | 10/04/2016 | 10/05/2016 |
| Present | Present | Present | Absent | Absent |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

Stucess



1. Do pages 16,17,18 in Math Steps

2.Read Chapters 10-11 in Moby Dick

3. Book Report due on December 12, 2016

Stucess



|  |  |
| --- | --- |
| Mark Clark | Fred Kelly |
| Terry Free | Brandon Real |
| Bill See |  |
| James Smith |  |
| Sam Bass |  |
| Bobby Smith |  |
| Gary Tell |  |
| Harry Bob |  |

Add Student

Delete Student

Modify Student

Stucess



Is Stucess easy to use? Yes No

Do you like viewing your child's grades? Yes No

Do you like communicating with your Child's teacher? Yes No

Is your child doing better now with Stucess? Yes No

Would you recommend Stucess to other schools? Yes No

Would you say Stucess is the wave of the future? Yes No

Thank you for using Stucess.

Stucess



Thank you Ms Harris for all your help with my child.

Stucess



Modify Privilege

Remove Privilege

Add privilege

Modify Account

Delete Account

Add Account

Construction and Testing (FAST Phase 7)

***Parents***

**Log into account**

1. Try to log into account without a username and password.
2. Log into account using only numbers
3. Log into account using a combination of letters and numbers.
4. Log in from different devices to see if information is cut off.

**Stay in Touch with Teachers**

1. Send a blank email.
2. Use live chat without another user on the other end.
3. See if email can be spammed.

**Monitor Your Child’s Grades**

1. Check if grades can be altered by parents from their end.
2. Verify modified grades update in a timely matter.

**Help Your Child with Class Material**

1. Check to see if PDF books can be viewed.
2. Verify PDF books cannot be altered.

**Attendance**

1. Check to see dates and years increment properly.
2. Verify absent, present and lateness can be changed according to the student's status.

**Gradebook**

1. Verify modified grades update in a timely matter.
2. Check if grades can be altered by parents from their end.

**Assignments**

1. Verify assignments can be viewed and not cut off.
2. Check to see if assignments can be posted.

**Class Websites**

1. Check resource links can be clicked
2. Verify web addresses show hyperlinks when (www) is entered

***Principal***

**Update user information**

1. Check to see user information can be accessed.
2. Verify when user info is changed, changes take effect immediately.

**Create or delete user accounts**

1. Confirm user account is created when button is clicked.
2. Verify user account is deleted when deletion button is clicked.

**Add or Remove user privileges**

1. Add privileges and check to see if they went into effect.
2. Remove privileges to see if they went into effect.
3. Verify Principals have access to Teacher, Parent and Student views.

***Student***

**Log into account**

1. Try to log into account without a username and password.
2. Log into account using only numbers
3. Log into account using a combination of letters and numbers.
4. Log in from different devices to see if information is cut off.

**Stay in Touch with Teachers**

1. Send a blank email.
2. See if email can be spammed.
3. Use live chat without another user on the other end.

**Monitor Grades**

1. Check if grades can be altered by students from their end.
2. Verify modified grades update in a timely matter.

**Student help with Class Material**

1. Check to see if PDF books can be viewed.
2. Verify PDF books cannot be altered.

**Attendance**

1. Check to see dates and years increment properly.
2. Verify absent, present and lateness can be changed according to the student's status.

**Gradebook**

1. Verify modified grades update in a timely matter.
2. Check if grades can be altered by parents from their end.

**Class Websites**

1. Verify web addresses show hyperlinks when (www) is entered.
2. Check resource links can be clicked.

**Strategic/Analytic**

**Login counter**

1. Check to see reports are generated for daily, weekly and monthly use of the software.
2. Verify reports coincide with the login counter.

**Feedback**

1. Check to see survey answers are being captured.
2. Verify any updates to the survey reflects immediately.

***Teacher***

**Create or delete user accounts**

1. Confirm user account is created when button is clicked.
2. Verify user account is deleted when deletion button is clicked.

**Add or Remove user privileges**

1. Add privileges and check to see if they went into effect.
2. Remove privileges to see if they went into effect.
3. Verify Teachers cannot view what the Principal views

**Update user information**

1. Check to see user information can be accessed.
2. Verify when user info is changed, changes take effect immediately.

Installation and Delivery (FAST Phase 8)

Stucess' instructional management program provides kindergarten through grade 12 (K-12) school districts with a comprehensive system that combines the features of both a learning management program and an assessment system. With single sign-on (SSO) capabilities, users can access all their needs from just one location, instead of having to access multiple programs and resources.

Stucess can pull content from third-party providers and fully integrates with student information systems (SIS), offering all-inclusive functionality. Stucess is customizable to your school's specific needs, allowing you to choose to implement only one, or both, of the modules. A variety of professional development resources are available to assist with system training, and you’ll also have access to Stucess' online help center where you can reach the support team for assistance.

The Stucess Instruct module includes all of the advantages of a learning management system, which gives teachers the resources to create and store lesson plans, input student grades and progress, and collaborate with other teachers. Students can access additional resources to enhance their learning, connect with other students and communicate with their teachers, and stay on top of their assignments and upcoming events. Parents are able to stay more involved in their child’s education and can access all the assignments, grades, and upcoming events, as well as tools to communicate directly with teachers. The Stucess Inform module is designed to keep testing and assessment aligned with school and state standards. It provides a variety of data and analytics that administrators can utilize to evaluate learning performance for individual schools, or the district as a whole. Administrators can also create larger district-wide curriculum directives and share those with all the teachers. Stucess integrates with a wide variety of curriculum content providers and also student information systems.

Stucess Instruct includes all the features of a learning management system. It enhances engagement and personalized learning, helping connect teachers with parents, and students with teachers. With this module, teachers can contribute content to a comprehensive library of learning materials, create interactive lesson plans, and share assignments and course materials with students. It can even be used to specialize content for more advanced students, or offer additional help for those who may be struggling. Teachers can also utilize this module to collaborate with other teachers, as well as entering students’ grades and progress, which can then be shared directly with students and their parents.

An account with Stucess empowers parents to become more involved in their child’s education, and they can even opt-in to receive email alerts regarding their student. The option to receive text a text message will be available in the near future. Parents can view their child’s grades and schedule, see what assignments are coming up or are overdue, and help to make sure their child stays on course. Parents are also able to communicate directly with teachers to discuss concerns or arrange conferences. Students utilizing Stucess will have greater access to everything they need to succeed, from accessing assignments and additional course materials, to communicating and collaborating with their teachers and other students.

Stucess Inform includes assessment and reporting tools to view analytics and trends between individual schools, or for the district as a whole. It provides a comprehensive real-time dashboard utility, which allows administrators to review testing results, evaluate the effectiveness of the district or school’s programs, and ensure that the education being provided is keeping up with necessary standards.

Teachers and administrators can create custom built tests and benchmark assessments to establish and monitor student ability and progress. They can also use the custom test tools to ensure content and programs are aligning with the state standards and the standards of the Partnership for Assessment of Readiness for College and Careers (PARCC). District-wide curriculum directives and objectives can also be established and distributed easily to all teachers and staff through the Stucess Inform module.

Integrating technology into the learning environment so that students and teachers experience the seamless ideal of instant connectedness—where information in every type of media is available and able to be instantly interacted with, with fully automated grades and progress reporting. That is why Stucess offers implementation that is intentionally user friendly.

In the past, schools and districts may have kept less than optimum systems to avoid the pains of new system implementation—the systems that didn’t provide easy data analysis, or data insights to teachers, or challenge students to learn and innovate. But these can now be easily moved away from. Stucess institutes a transition process that is guided in a series of logical steps by an account manager that is dedicated to each particular school.

Beginning with an executive planning session, duties, schedules, and deadlines are set in advance. Then sensitive data is secured and single-sign-ons are established. Following this, is configuration of sites and integration of data. And once all those foundational pieces are in place, professional development takes place in sessions that are hands-on so that the “front line” educators and administrators can be trained in the new system that they will then export school-wide to the rest of the faculty. This creates an easy, sharable way to stay on top of current status and progress and with customizable management tools that provide data returns.