Program Elements

SN is familiar with the 2018-19 Every Student Succeeds Act (ESSA) Comprehensive Support and Improvement, Targeted School and Improvement (TSI) and Additional Targeted Support and Improvement (ATSI). To meet the objectives of ESSA, SN proposes to offer Learning Online Through Universal System (LOTUS) app as Intervention software. This app covers all the activities that are supported by CSI for student improvement. These include; Building Capacity; Fostering collaboration with Administrative staff; Conducting assessments to identify needs; Developing learning plans on evidence-based interventions, and Tracking data to monitor progress and program evaluation.

LOTUS has been approved by the Oregon Department of Ed as "Math Adaptive Learning Tool for K-12 students". This announcement can be found under "News and Announcements" at: http://www.ode.state.or.us/home/. Additionally, this app is being used as a learning tool by various departments and school districts including but not limited to: Los Angeles County Office of Education (LACOE), County of Los Angeles Probation Department, Soledad Enrichment Charter Action (SEA), County of Riverside, Central Unified School District (CUSD), Compton Unified School District (CUSD) and at least 10 group homes and foster homes. Under these contracts, LOTUS is being used by over almost 8,000 subscribers in the United States. Additionally, LOTUS is also being used overseas in India, Canada, and Mexico.

LOTUS will be individualized but will require less intervention on the part of the teacher assigned to the program. The teacher is expected to meet with groups of eligible children who are participating in this opportunity at least once every two weeks but will regularly monitor student progress remotely and will intervene on an as-needed basis. The teacher will provide assignments for completion based on student needs. Groups may consist of students from various grade levels, of varying proficiency levels and working on varying subject areas. The teacher will be expected to work with children individually during classroom meetings and is not expected to provide any group instruction.

The characteristic features of LOTUS have been discussed in detail below. We have also added screenshots to give the reader a glimpse of what each feature of the app looks like.

Easy to use: Once LOTUS has been set up on the student's electronic device, there is virtually no supervision required for the Student. The app is intuitive enough to be used, even for first-time users. Also, the app is available on multiple platforms such as Android, IOS and Operating System.

Inbuilt Assessment Tool: Participants will be evaluated throughout the program using assessments. SN will conduct a pre, middle and post assessments. The pre-assessment will help in identifying the needs and then creating LPs. The mid assessments will help in determining that the instructor is going on the right path and provide the information needed to adjust teaching and learning while they are happening. Additionally, the middle assessments will evaluate the academic improvement of participants and also determine the effectiveness of our educational services. We will consolidate all the data from the middle assessment from each participant and send out progress reports in order to make the provision of our services more transparent. At the end of the program, the data from all the assessments will be evaluated to determine pass/fail, grades, mastery.

508 Compliance: As a company, SN has made methodological changes in the provision of services in order to better accommodate students with disabilities (SWDs). For example, SN has developed and uses technology to provide individualized support for students. The technology has multiple modes of communication (audio; video; chat; pre-made Word, PowerPoint, and PDF; and whiteboard), and any one of these can be used by a student with disabilities to communicate. Text to speech is implemented in English and Spanish language, which automatically reads out question text. Teachers can assign strands based on the capability of the student. For students that have problem with bright vision, the user can select a softer background and appropriate foreground colors. On the other hand, many students with low vision can work most efficiently when the screen is set with very sharp contrast settings. To meet this requirement LOTUS offers a variety of color and contrast settings. Also, the students can look at the expanded version of the question for ease of reading.
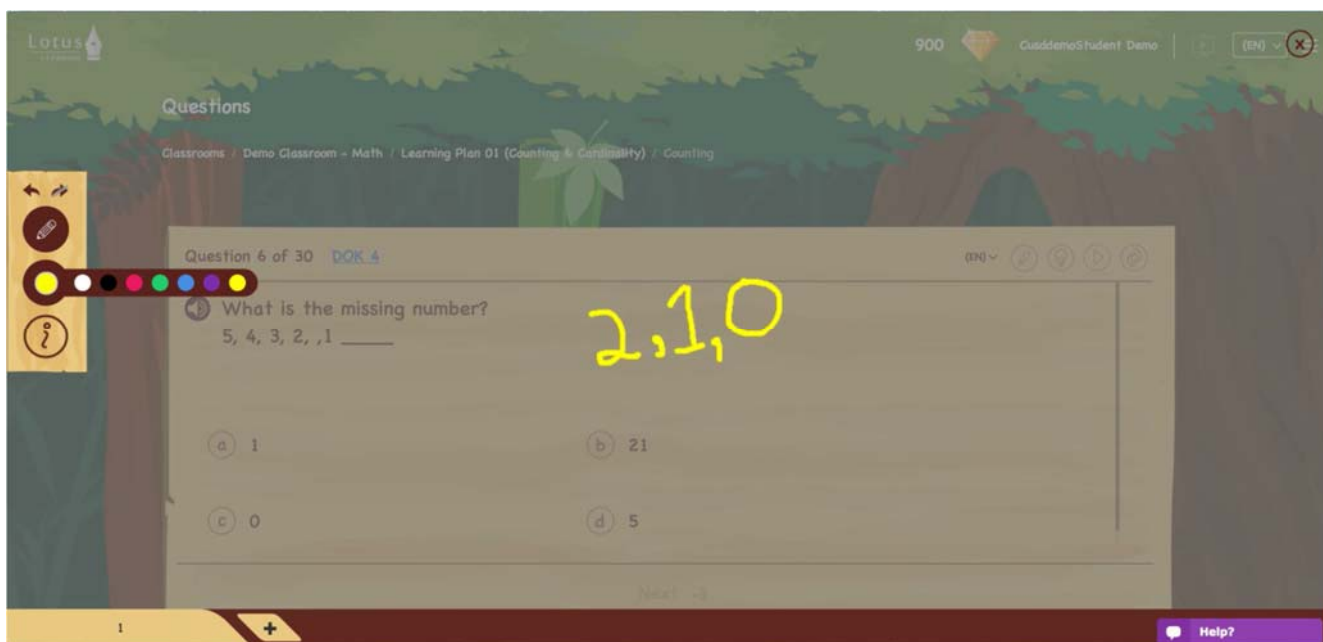
Customized Learning Plans: Personalized learning for every student achieved through our adaptive and predictive learning platform. It enables students to work through a customized curriculum and get the right level of practice they need to master concepts for their grade level. Students are in control to learn at their own pace and can spend more time and focus on their weak areas.
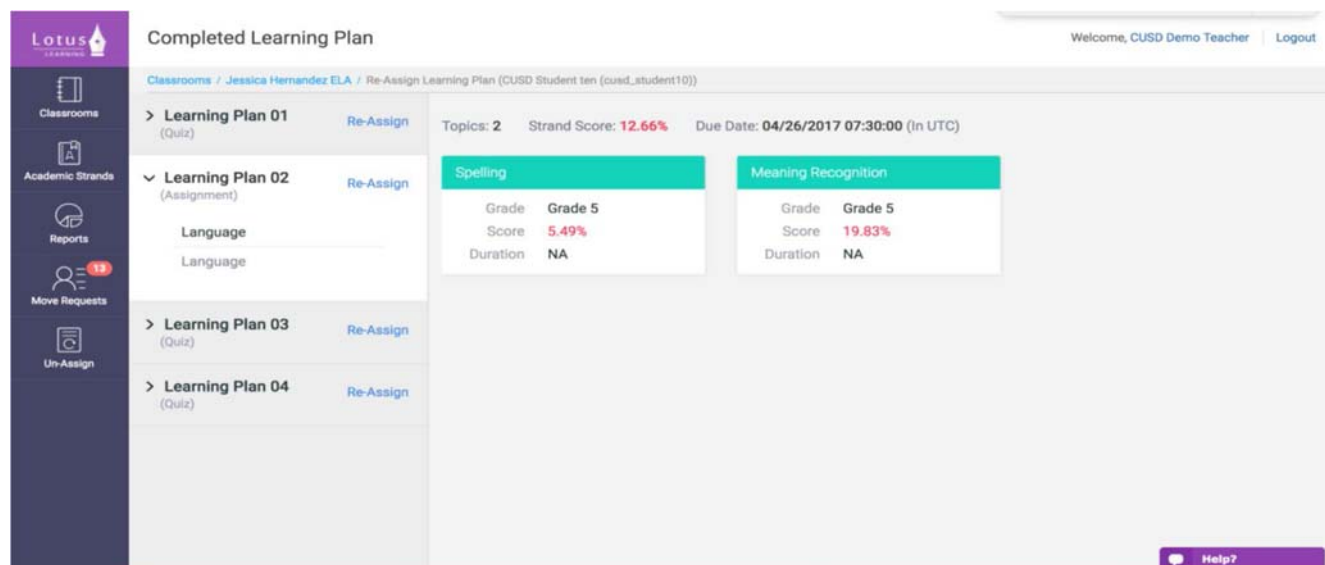

Automated Learning Plans: Automatically creates a development goal and recommend specific topics based on the student's pre-assessment score.
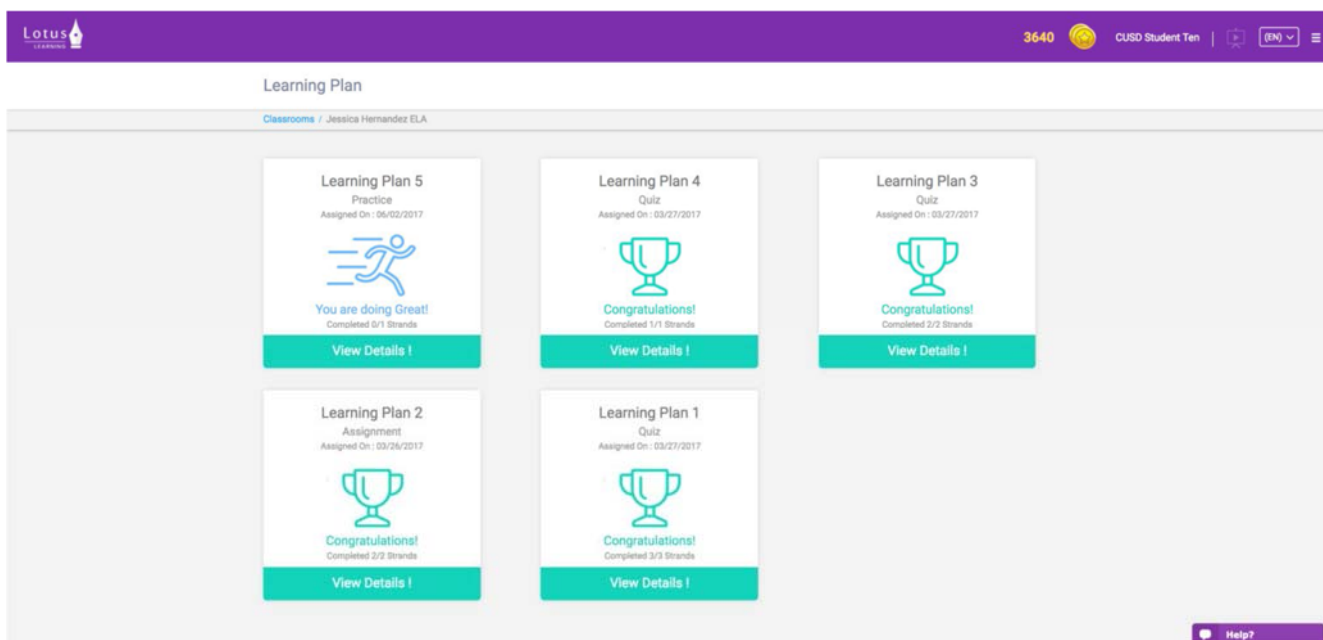
Instruction aligned to Common Core State Standards (CCSS): Studentnest will ensure that its content is aligned to the state approved standards which for this proposal are CCSS This will be the responsibility of our curriculum staff will be comprised of the Program Monitor, Curriculum Specialist, and Lead Tutors. Our Program Monitor has more than five decades of "educational" experience and curriculum specialist and lead tutors are also credentialed teachers with more than 15 years of teaching experience. Their skills and expertise have resulted in the creation and development of superior quality content and assessments for the students we work with throughout the school year. Curriculum staff will stay on top of any modifications made to standards and make changes accordingly. Additionally, Studentnest has determined the top 5 essential standards for each grade-level which will be the driving force behind the reading, writing, math and ELD instruction (For example "key" essential standards for grade 1 students in math are: add and subtract within 20; understand place value; tell and write time; interpret data and reason with shapes and their attributes. In ELA key standards are: Ask and answer questions about key details in a text; describe characters, settings, and major events in a story; write small sentences and read at grade level).

Adaptive Learning: We ensure that LOTUS maximizes the learning for a student. LOTUS does this by adapting the difficulty level of a question as per the student's performance in the previous questions. This is done in real-time, while the student is working on his learning plan. If a student fails on a difficult question, LOTUS automatically adjusts and reduces the difficulty level of subsequent questions.
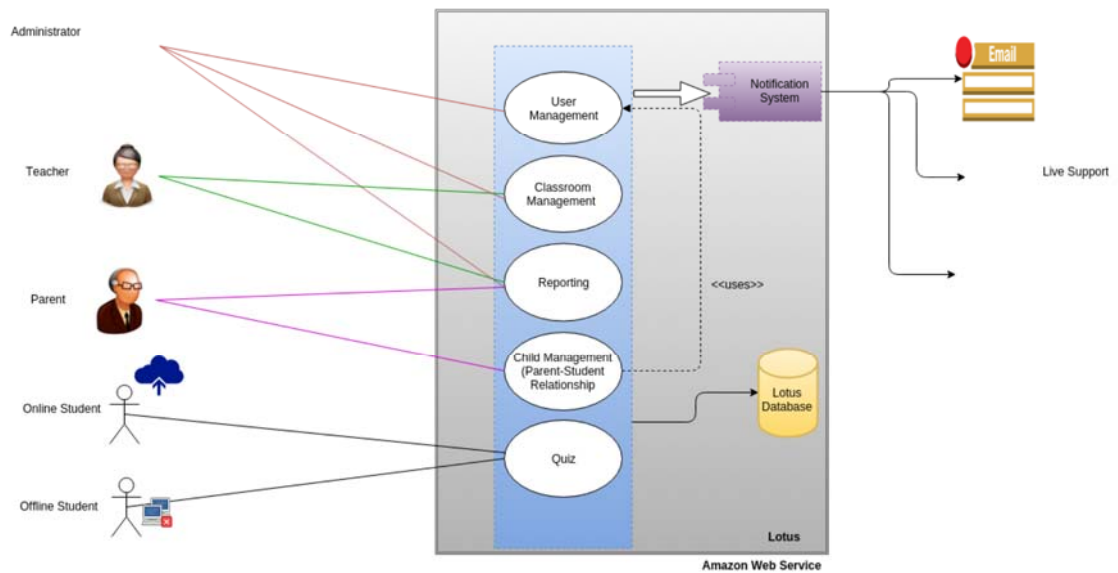
No. Of questions	Difficulty Levels	Group
	DOK1	Easy
10 Questions	10	
10 Questions	20	
10 Questions	30	

	DOK2	Medium
10 Questions	40	
10 Questions	50	
10 Questions	60	
	DOK3 and DOK4	Hard
10 Questions	70 (DOK3)	
10 Questions	80 (DOK3)	
10 Questions	90 (DOK4)	

Multi-Tiered Approach to Intervention: LOTUS app supports the appropriated levels and types of scaffolding and differentiation techniques. Within each specific level, the intervention services will be customized to the needs of each student. A teacher can assign modules of different levels to a particular User. There are 3 types of module: a) Practice module b) Assignment module c) Quiz module

- ✓ **Practice Module**: This will be assigned to the beginner level users where students will be able to see hints/instructions and they will have multiple attempts to answer a question.
- ✓ **Assignment Module**: As the students' progress, they will move on to assignments module. In these tasks will be assigned at the Intermediate level where the student will be able to see hints but have only one attempt to answer a question. However, he or she will not be able to see instructions.
- ✓ **Standards Aligned Assessments/ Quiz Module:** LOTUS provides various CCSS aligned formative, summative and self-assessment banks which allow the teachers to interpret the performance of students. These assessments are adaptive in nature which means that difficulty level of the questions appearing in the quiz changes on the basis of the attempts of the students. Each question is assigned a difficulty level from a total of 9 levels. The 9 levels would be grouped into Low, Medium, and High difficulty. Each group will have 30 questions. The student's difficulty level changes according to the last attempt of the student. Quiz Modules will be assigned when the student clears the practice and assignment modules. In this module, students will not be able to see hints/instructions and they will have only one attempt to answer a question. Also, various difficulty levels and adaptive testing is implemented for the students. Users will be getting questions of different depth of knowledge. LOTUS aims at improving subject expertise for a user. For that, we have designed our system in a way that keeps on repeating similar kind of questions to the user, unless he/she is able to correctly answer that type of question. This feature is being upgraded on a monthly basis.

Online and Offline support: Once a student downloads his learning plan on the mobile application, he can work on completing it even if he doesn't have access to the Internet. And once the Internet is available to the application, it automatically syncs the results back to the server and also downloads any new learning plan available.

Learning Plan 1 (Practice)
Assigned On : 02/01/2017
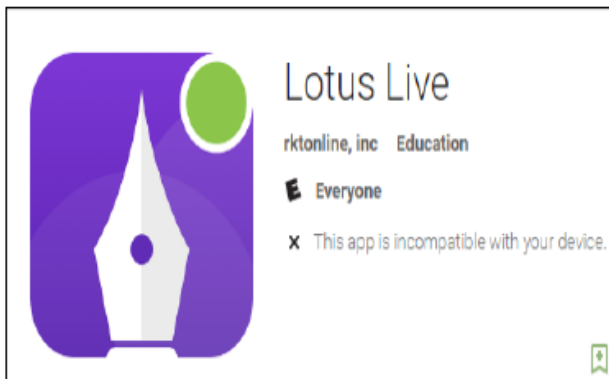
Name : cusddemoStudent Demo (cusd_student110)
School : BIOLA ELEMENTARY
Subject : English
Grade : Kindergarten
District : Central Unified
Classroom : ENGLISH CLASSROOM (Demo Teacher, CUSD)

1. Strand : **Language** | Grade : **Kindergarten** | Total Questions : **150**

   - Topic : **Regular Plural Nouns**
   - Topic : **Nouns, Verbs, and Sentences**
   - Topic : **Phonemes**
   - Topic : **Capitalization**
   - Topic : **Identifying Real World Objects**

2. Strand : **Reading Literature** | Grade : **Kindergarten** | Total Questions : **60**

   - Topic : **Understanding Reading Aloud**
   - Topic : **Unknown Text Words**

3. Strand : **Reading: Foundational Skills** | Grade : **Kindergarten** | Total Questions : **60**

Audio Hints and Guidance: The mobile app can read out the questions and hints to the student. Guidance/ Instructions will be provided with the help of videos associated with a particular topic. In the future, we plan to enable voice recognition, so that students with special needs can also dictate their answers.

Notification through email and text: Students can either use email or text messaging to receive notifications/ alerts from the teachers/administrators. Student's result can be seen at various granularities (Learning Plan, Strand, Topics, Quizzes). Parents will receive an automated email/SMS when a student completes a topic. Same notification will be sent to teachers/admins to track student progress.

**GPS Tracking:** System tracks down the student location based on his GPS location or IP address. This functionality is present on both web as well as mobile systems. Only ADMIN has the right to see the student sessions with the location.

Theme Based Design: To make learning more interactive, LOTUS has theme based User Interface Designs that can be customized and configured based on the students' grade.
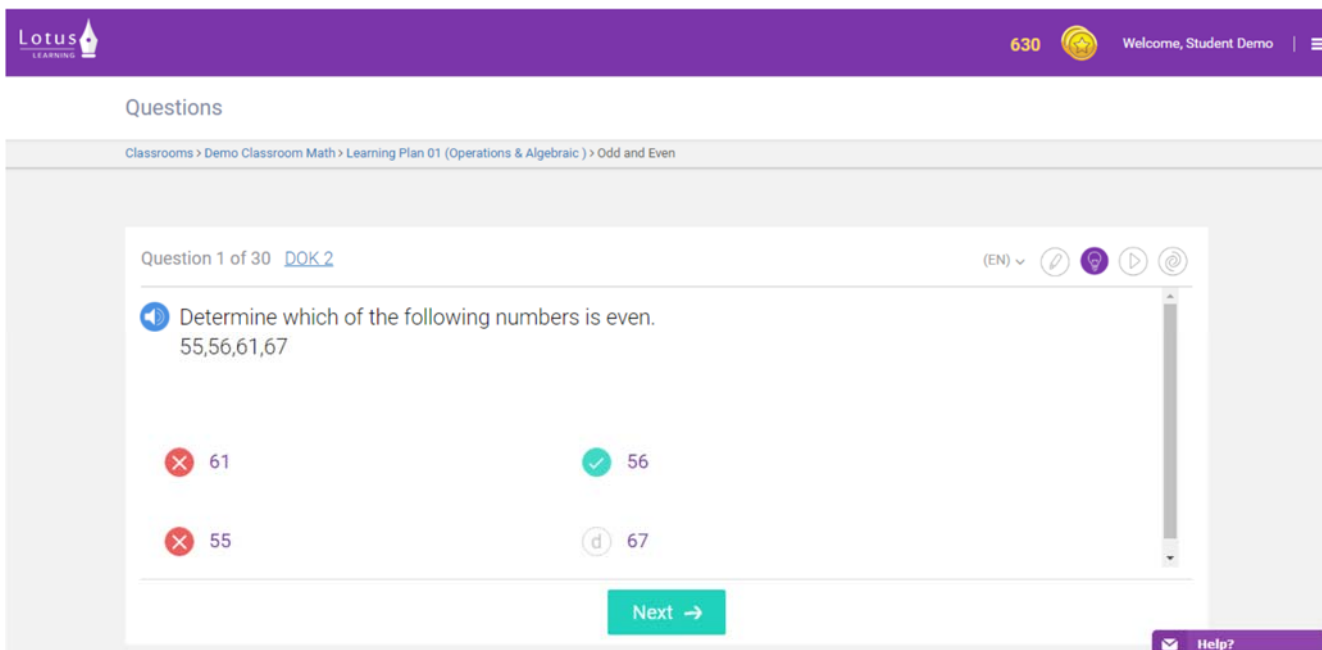
Virtual Scratch Pad: for students to work out answers to questions. By clicking the scratch pad icon, scratch pad gets opened. A maximum of 2 pages are provided to the user in the scratch pad. All of his work progress will be saved and uploaded to the web portal as soon as he completes the topic. The user can also slide the color panel to increase the scribbling area by tapping the "Double Down Arrow" button in the top right corner of the scratch pad panel. Teachers and parents can view the scratchpad image also.
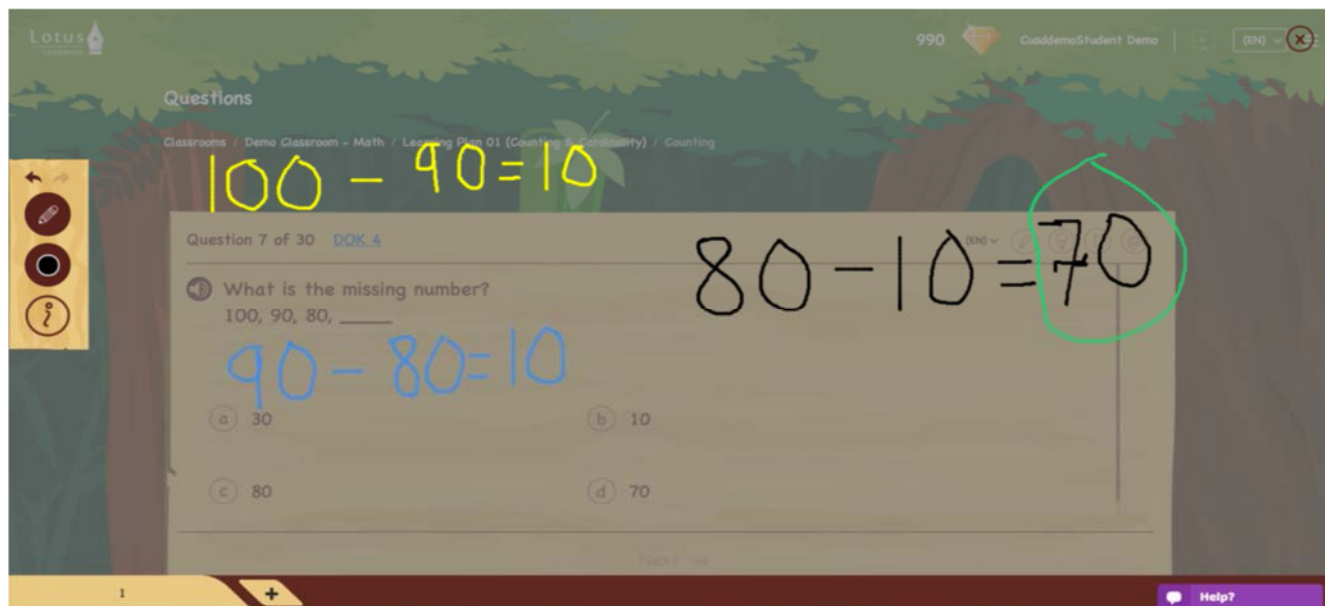
Live Chat Feature: Teachers, Parents, and students can now chat with admin team anytime, or leave a message if the team is offline. The Live Chat Support window is accessible on each and every page of all the users. There are several options for the user while live chat support: 1. Change name: simply changes the display name used for chatting. 2. Print Transcript: allows the user to print the current chat details. 3. Sound on/off: toggle between mute/unmute chat sound options. 4. Upload file: allows the user to send any file to Admin. 5. End Chat: close the chat window. Once you end the chat, you will get
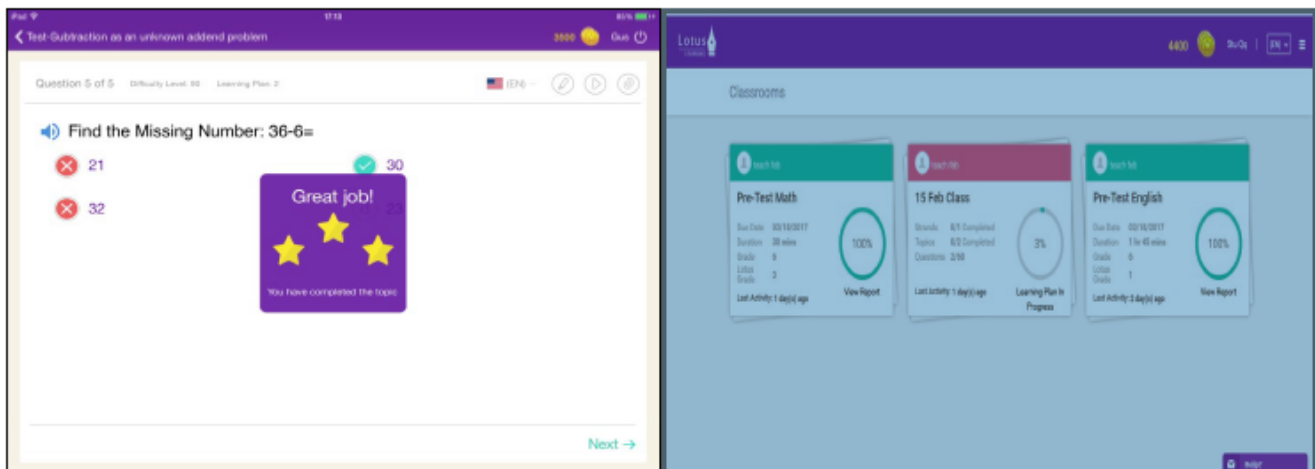
the text that 'Your chat has ended'. And will get two more options: 1. Start a new chat: will start the new chat window. 2. Email transcript: user can use this option to email the chat details to his email ID.
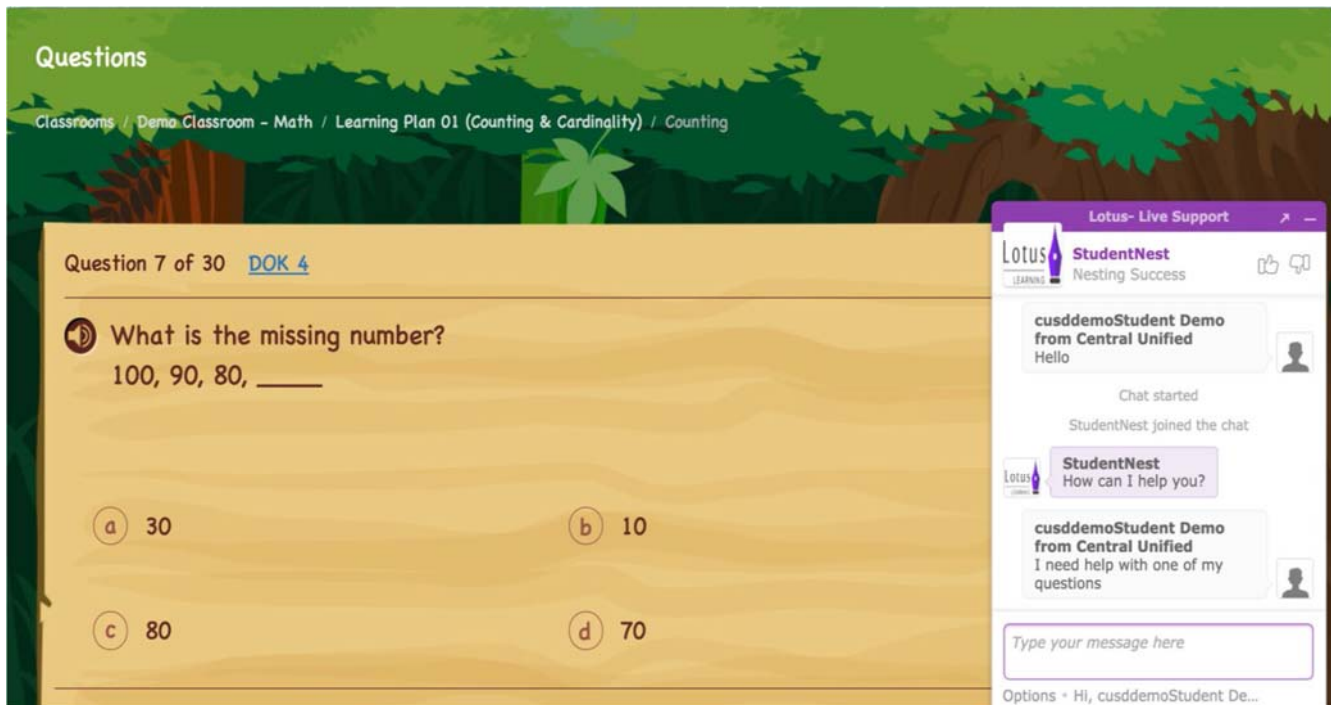
Text to Speech feature: Text to speech is implemented in English and Spanish language, which automatically reads out question text. User can pause/resume the question audio.

Internationalization: System is designed for the Spanish language as well. While attempting a question, a student can select the language and question set will change as per the language selected. When the user is logged in, he or she can either change the language or change the complete website to the language of choice (English/Spanish).

Credit Points for Motivation: When the user completes any topic, he/she is greeted with a congrats message and redirected back to the Topics screen, from where he/she can access other topics if there are any. Credit points are given to the student for motivation, which can later be redeemed by students for gifts.

OTHER PROGRAM ELEMENTS

Type of Services	Service Description	Intensity	Frequency
Education Services/Academic Support	• Tutoring (Face to face and online/Homework Assistance • Study/Test Taking Skills • Project Based Learning	Services will range between a total of 25-30 hours in total depending upon the service type.	3-5 times a week or as needed
College Readiness	• dual credits, • advanced placements, • SAT/ACT Preparation • college and university options • filling out college applications.	8-10 Hours in total	1-2 times a week or as needed
Career Readiness	• Resume Writing • Interview Skills • Work Etiquettes • Employment Counseling • Life Skills • Mentoring	Services will range between a total of 6-12 hours in total depending upon the service type.	1-2 times a week or as needed
Technological Advancement Services	• Learn 2 Code • Drone Programming • Robotics • Digital Audio Workstation • Drone Programming • Fine Arts	14-16 Hours	2-3 times a week or as needed
Parent Engagement		3 Workshops	Workshops will be spread over the time duration of the contract.

ACADEMIC ENRICHMENT/SUPPORT	
Desired Outcomes	➕ Improve academic scores with a focus on higher graduation rates. ➕ Improve attendance ➕ Focus on proficiency for all ➕ Develop technical and social skills with a focus on career readiness.
	▪ **Tutoring/Homework Assistance:** Services will provide additional academic support before/after school, during the school day or both in small groups or on an individual basis. Tutoring services will focus on developing skills in a particular subject area that enhances understanding of the materials being taught in class. Providers will assess individual skills before beginning tutoring services and will track homework completion and submission. Services will utilize best practices for school-day and extended-day tutoring and homework assistance.

	Study/Test Taking Skills: Services will help students become active and engaged learners and teach effective study habits and strategies to take and excel at standardized exams. Students will develop and practice skills in note-taking, time management, reading comprehension, etc. Activities will help students organize and prioritize their work and become more aware of their own learning styles. Programs and lesson plans should be consistent with the materials being taught in class and the exams that students are scheduled to take. **Project Based Learning:** Services will enhance student learning and the development of academic skills, such as literacy, math, science, social studies, etc., through an ongoing learning project centered on a particular theme, topic or area of interest. Themes and project activities should be selected and coordinated with input from school-day teachers and be multi-disciplinary. Programs, activities and lesson plans will be consistent with the materials being taught in class and with overall student needs. **Academic Skills Enhancement:** Services will enhance student learning and the development of academic skills, such as literacy, math, science, history, etc., through traditional or non-traditional methods. Programs and lesson plans should be consistent with the materials being taught in class and with overall student needs. Providers will assess individual skills before beginning academic enhancement services and evaluate progress during and after services are provided. Various modes of dance, music, drama, or the visual arts may be used to enhance academic skills and develop effective communication and problem-solving techniques
	TECHNOLOGICAL ADVANCEMENT
Program Description	**Digital Audio Workstation (DAW):** This program allows students to experience the touch and feel of rhythm instruments, learn to keep and follow a beat through drumming, stomping, dancing and musical play, sing along to original, traditional and multi-cultural musical selections that introduce a variety of different tonal and rhythmic meters and provides an outlet for students to be inspired by each other, creating memories and make a lasting impression on students, teachers, and parents. At the end of the Music program, like other programs, such as the Robotics, Cooking and the Art program follows with a CONCERT/Show that invites the community, schools, and families. This creates community bonding, community bonding, supports positive self and social identity, supports positive self-expression, supports the emotional well-being of youth, creates confidence among students, supports team spirit and cultural acceptance and appreciation. With DAW we will be doing just as Pythagoras did by linking key mathematics concepts to music concepts all while giving students the ability to be creative by composing their own songs. Students learn, Rhythm Fundamentals; Rhythm Composition; Rhythm Sequencing; Layering and Form; Introduction to Melody; Progression of Melodic Lines; Introduction to Harmony; Harmonic Sequencing; Harmonic and Melodic Form; Lyrics vs Poetry; Rhyming Schemes; Lyric, Melody, Rhythm Combinations; Song form and Final Composition. **Robotics** Students will build, design and program a robot; Students will use

critical thinking and creative ideas to design a robot for a final talent show; Students will understand the basic mechanical design, construction, programming, and teamwork skills; Support problem-solving skills; Support a new generation of Inventors, International, and National Entrepreneurs, Scientists, Mathematicians, Technologists, etc.; Support college & career readiness and computer literacy. The Robotics program utilizes a TIC TAC TOE ROBOT, which allows students to design and program an EV3 Robot to play TIC TAC TOE, experience COLOR S0RT3R by designing an EV3 Robot that can quickly sort colored objects, design a robotic arm that can grasp and manipulate objects, design a battle Robot with sensors to win a sumo wrestling competition, build and EV3 Robot with all-terrain capabilities.

- **Learn2Code:** Supports a new generation of Inventors, International and National Entrepreneurs, Scientists, Mathematicians, Technologists, etc.; Supports college & career readiness and computer literacy; Students will learn key coding terminology, functions, and principles. This session, designed for the beginner programmer, will assume no previous coding knowledge. We'll go over key coding terminology and principles, what their functions are how they work together and use that new knowledge to write our own code and develop our own simple project. This program like our Drone Programming program inspires students to be the owner of their own product and sell worldwide, get a career in one of the leading trades in the world and be a step ahead of the competition. Benefits include entrepreneurship, career, and college readiness.

- **Drone Programming:** Provides a technological learning environment for young scholars to explore and enjoy; Supports a new generation of Inventors International and National Entrepreneurs; Scientists and Mathematicians; Technologists; etc. The CoDrone is a compact, intelligent and innovative learning platform for all ages. The flexibility of a small, sensor-driven drone combined with the widely popular Arduino programming environment offers an enormous range of subject matter and stability. Students make use of a customizable controller, additional controller pins, easily removable and replaceable parts, and programmable On-board LEDs. Students learn various capabilities of the drone, such as Self-Stabilization, Altitude Hold, Bluetooth Smart Phone Control, and Sensor Data Feedback.

- **Fine Arts:** The program teaches students realistic drawing and painting. This high-quality fine art program offers art instruction that goes far beyond cut and paste, as well as arts and crafts. It teaches students how to "see" in a new way and offers a basic understanding of how to draw and paint. Students will demonstrate thinking skills using the artistic process. They will be able to define and discuss the Elements of Art and the Principles of Design. Realistic drawing and painting skills help strengthen confidence, which in turn lessens frustration.

COLLEGE AND CAREER READINESS

Desired Outcomes	The desired long-term outcomes for this program initiative has been organized by the following three themes:
	↓ Increase school emphasis on college preparation for all students, including

	aspirations, student culture, and staff culture.
	✦ Increase preparation for college, as reflected in advanced course enrollment, completion of dual enrollment courses, transcript readiness, and graduation rates.
	✦ Improvement in student college-going, remediation, persistence and completion rates.
Program Description	**College Readiness:** SN provides early and ongoing exposure to experiences and information necessary to make informed decisions when selecting a college or career that connects to academic preparation and future aspirations. Participants take a career aptitude test that gives the counselor an insight into the career that best suits the student. From here, participants give feedback to the career counselor and obtain the resources they need to work towards this career. The program encompasses exploring the various

 ✦ dual credits,
 ✦ advanced placements,
 ✦ SAT/ACT Preparation
 ✦ college and university options
 ✦ filling out college applications.

SN provides students and their families with comprehensive information about college costs, options for paying for college, **financial aid, and scholarships** (processes and eligibility requirements) so they are able to plan for and afford a college education. Students receive one-on-one assistance filling out the **FAFSA.**

Career Readiness Support: The following items will be covered in this requirement with the objective of preparing youth for employment or training.
 ✦ Employment Counseling: Providing participants with information that can assist them in the development of a life-career. This will include but not be limited to obtaining job leads, filling and submitting applications, scheduling job interviews
 ✦ Resume Writing: Teach participants how to create are resume using sophisticated vocabulary with the correct format and information.
 ✦ Interview Skills: Evaluating participants in real-world situations to apply their interview skills and improve them. We will conduct multiple mock so the participants are confident with their answer.
 ✦ Work Etiquettes: Introducing participants to the code that governs the expectation of social behavior in a workspace, managing time, overcoming problems, being a team player, taking criticism positively, etc.

Life Skills: SN's Life Skills training program offered by SN has the ultimate goal of this training is to prepare the participant youth to meet the challenges of everyday life. It will give these youth abilities for adaptive and positive behavior that enable them to deal effectively with the demands, temptations, and challenges that may draw them away from school and employment opportunities, including drug use and other anti- |

social behavior.

SN will use developmentally appropriate and collaborative learning strategies taught through lecture, discussion, video, role-plays coaching, and practice to enhance youths' self-esteem, self-confidence, ability to make decisions, and ability to resist peer and media pressure. Our program will allow for generalization of social skills used in different settings, with different people, at different times, and across different situations and circumstances. SN's program teaches specific behaviorally-oriented skills (not constructs of behavior) in explicit and developmentally appropriate ways, and the curriculum is adaptable to youth's individual language levels, cultures, maturational levels, and needs.

Mentoring: The personal and social skills targeted in this program would include one or more skills in such areas as problem-solving, conflict resolution, self-control, leadership, responsible decision-making, and enhancement of self-efficacy and self-esteem. Role-plays and games will be used to demonstrate the importance of being assertive (e.g., telling a peer to stop distracting you; telling a friend that your feelings are hurt). Students will be given education on drug, alcohol and teen pregnancy prevention. In addition, behavioral modification methods (i.e., star charts in which students earn stars and redeem rewards) will be used to encourage meaningful participation. Staff will be knowledgeable in prevention and youth development, particularly in the asset building model. Staff will receive joint training in areas of asset building, nonviolence education, violence de-escalation, positive youth development, and other related areas. If required by the district, SN will utilize mental health workers, social workers, counselors, and psychologists to improve self-confidence among students and encourage them to develop new skills and interest.

PARENT ENGAGEMENT	
Desired Outcomes	Services and activities will: ❖ enable families and parents to become teachers of their children as a means to improve student attendance and academic achievement. ❖ increase a family's knowledge of academic requirements. ❖ promote ongoing learning in the home, and develop academic skills of parents.
Delivery Method and Schedule	SN will host a maximum of three (3) workshops. It would be our first priority to conduct these workshops at school sites, however, if that option is not available, they would be conducted at locations which are most convenient to parents such as Community Halls, Public Libraries. The dates, agenda, and location for each workshop will be provided to the LAUSD at least 20 days prior to the workshop. We will conduct an Orientation Meeting in October/ November, followed by Parent Workshops: one in December-February and one in March-May. Possible parent workshops focus on the content area, assessment, enabling parents as partners in education, and study skills. All parent workshops will have approved agendas, attendance sheets with original signatures of participating of parents/guardians of students, evaluation sheets of each workshop, and include survey questions of

	parent needs.
Program Description	SN has over four (4) years' experience providing student and parent engagement services to various educational institutions. Our experience with low-performing students has taught us that the parents of these students are often discouraged, frustrated and without hope. One of the building blocks of our program is to provide parents with support, skills, and hope that their child can learn and benefit from the program and change the academic trajectory of their child. Parents are given guidance on the various techniques and strategies that they can use to build positive relations with their children by praising them and treating them with respect and compassion. Parents are involved from the very beginning of the program. Our office staff creates student achievement goals based on students' needs determined by pretest and generate SLPs. These SLPs are then shared with the parents and a follow-up phone meeting is held with the parent by site coordinators to discuss the achievement goals. Input is taken from parent to ensure the goals are in line with what is expected. Parents of students with a 504 and IEP plan are involved for their input on the particular learning style of the student and if they have any special preferences with regard to assigning a tutor. All contributions by parents are acknowledged. Parents are given monthly progress report verbally in their language and also the reports will be sent in the mail. As stated earlier, our office is equipped with bilingual staff.

Exhibit B

Price Schedule

Please see the fully burdened fixed rate per instructor.

Program Element	Rate Per Hour Per Instructor
Academic Enrichment/Support Services • Tutoring (Face to face and online/Homework Assistance • Study/Test Taking Skills • Project Based Learning	$64.50
Technological Advancement Services • Learn 2 Code • Drone Programming • Robotics • Digital Audio Workstation • Drone Programming • Fine Arts	$54.50
Career Readiness • Resume Writing • Interview Skills • Work Etiquettes • Employment Counseling • Life Skills • Mentoring	$44.50
Parent Engagement Workshops	$44.50
Technology-Assisted Learning/Adaptive Learning(LOTUS)	$30.00