**Group No:3** **GPS Tracker**

**Chapter 1. Introduction**

**1.1 Design thinking and it’s importance :**

**Design thinking is a process where we are to select a domain to make it better. Better in any sense one would think it could have been better regardless of its importance to one person.**

**Solving complex problem requires analysis and design thinking. There is always room for improvement and hence, innovation. Innovation can’t just be done**

**properly. This calls for proper planning as well proper user interaction and considering every aspect and state of system that might fall into.**

**1.2 Project Summary :**

**Distributed Learning has drawn a great deal of attention in the field of distance and Online courses: Many online universities and institutes have been offering online courses for graduation, masters’ studies and diploma programs. This is quite beneficial as the student can learn the subject from the comfort of his home. Further they can take up in their spare time and need not quit their jobs. This way of learning helps them achieve higher educational qualification and in turn get promotions in jobs.**

**Further if a person needs to join some course and is lacking some expertise, he can take up college**



**Page | 8**

**Group No:3** **GPS Tracker**

**prep courses online to get ready for regular course.**

1. **Online revisions: Revision is one of the key for daily study and exam preparations. Revision does not need a teaching but a constant grading of performance or updating the knowledge. Performance refers to ability to recall the subject while updating refers to improving the current knowledge of a topic from the one already had before. Since students might forget what he heard from teachers in school or college, revision helps him recall and remember that teaching.**
2. **Online exam: Many times students might need to face a competitive exam for an**
3. **a part of online education help to solve the problem. One is accessible to unlimited set of journal or books for references.**
4. **Apps: This is another area of development in online education. You might have noticed many apps to learn English language or any other language. These apps help you learn the foreign languages with ease. Also there are apps as simulation for various science, mathematics and**



**Page | 9**

**Group No:3** **GPS Tracker**

**technology topics. Further these apps can be taken up on one smart phone or tablet to be read at convince like travel or outing etc.**

**7) Games: These play another prominent role in education. There are some games to help one learn some topics of study. This is a way of play and study liked by many kids. Even many colleges and schools find it difficult to cope up the cost of practical education. So they limit themselves from teaching most advanced methods or discoveries to their students as they are unable to afford the cost. For them online education comes as a solution. This is because they can get to see virtual practical experiments using online simulations and lab videos.**

**8) Online research paper writing services: This is another area where many people try to outsource their writing work. Though it might seem taking help in writing a research paper is not good. Still it saves time for students to utilize in other productive works.**

**Thus the scope of online education has ability to be taken up even in remote parts of the world and also by economically disadvantaged schools and colleges**



**Page | 10**

**Chapter 2. Literature Review / Secondary Research**

**2.1 Literature Review**

**Online learning has a number of potential benefits, not least of which is the ability to overcome the temporal and spatial restrictions of traditional educational settings (Bates, 2005). Freedom from constraint may also be seen as a defining feature of distance learning, for example freedom of content, space, medium, access (Paulsen, 1993), and relationship development (Anderson, 2006). Notwithstanding the advantages that online learning offers, a variety of factors have been identified as crucial to the success of online courses (McIsaac & Gunawardena, 1996). Motivation is one such factor (Bekele, 2010). Just as motivation is a key factor in learning and achievement in face -to -face educational**

**.**



**ADD ON FEATURE AND FUNCTIONALITY :-Free Courses**

**Online Certification**

**Varity Courses**

**Feedback**

**Personal communication between student and experts**

**Live video tutorials**

**2.2 Technology and Tools**

**Distributed leaning makes good use of database and cms (content management system) technologies. These two work hand in hand to store your course content, test results and student records. The data is stored in the database and the cms provides a user interface for you to add, update and delete data. A good lms will often provide reporting tools to generate and store progress reports.**

**Distributed leaning tools and technologies used to improve the quality of content are manifold. Software such as flash and powerpoint will help you make your presentations slick and interesting, with high quality, graphically rich content. There are word processing packages and html editors available these days that make formatting your text or web pages a breeze, removing a lot of the complexity. There are also lots of online services available that you can use to create interactive elements for your courses such as quizzes and games.**

**The key to having a truly interactive and engaging e-learning course is using the various multimedia resources that are available today. In our technological age, we**

**networks, servers, storage, applications, and services) that can offer a range of benefits.**



**Group No:3** **GPS Tracker**

**Chapter 3. Design Consideration**

**3.1 Design for Performance, Safety And Reliability:-**

**Performance points:-The performance of the System is very efficient. It consumes very less internet data for reading document and videos are available in different quality.Network traffic is reduced by web caching so it contains less time to response the request.**

**Safety :- By Creating restricted areas within the Learning course itself, so that only those with permission to be allowed to access more sensitive or**