

**Team Name: Alpha Tech Initiative (ATI)****Team Members: George Yazbeck, Vertika Tiwari , Marutkumar Batra, Elisabeth Rader****1) D.I.Y. Restaurants (Do-It-Yourself Restaurants):**

An automatic system for ordering and serving fast food. The ordering will be executed by touchscreen (for user interface) whereas the producing and serving is done by machine. Two approaches are envisioned: 3D printing (3DP) and conveyor-belt processing (CBP). The former allows for food to be printed while the latter is a multipart machine that transports food along a conveyor belt with each station contributing ingredients to finish the order for pickup. Countless issues would be solved using either approach that consumers deal with when eating out.

- Range of issues solved: sanitary handling of food, hot meals when customer wants it instead of being served a pre-cooked one, integration of coupons/payment options between machine and app, reduction of lines with more than one machine in-store and quicker production than with human interaction/error.
- Integration with 3D printing: while still in its infancy, the potential for mass-producing machines that can print food is very high. This would be eventually cost-effective as this type of production becomes more common in the future (printers will be cheap coupled with GMOs, will cut back expenses on importing certain ingredients and replacing ovens, stoves, other bulky and expensive apparatuses).
- Interface: smartphones and tablets are ubiquitous and newer generations; why shouldn't this same concept be applied and integrated with restaurants? The lifestyle of "going out for dinner" would be made so much simpler if one could design their meal and put out a request to pick up in store before sitting down by just the use of an app. Graphics would allow kids and adults alike to breeze through the options without reading text-heavy menus we're all so used to.
- Potential to franchise on a new level and replace "industry standard": yes, McDonald's and Burger King are long known for their corporate identity but to fast-food goes, the model and issues are the same (even in fine dining establishments). Why not unify the industry under one brand using the same technology nationally or internationally (and cater futuristic supply and demand for regions that need to eliminate menial restaurant jobs for strengthening the region's economy, for example)?

**2) PartnerShip:**

An application for the package sender, to bypass the high shipping costs from e-commerce sites. An app will be created to allow the sender to connect with any passenger travelling to the same country, where you want to send the package. The app is going to have verified and authorised travellers to prevent theft and damage. They have to sign a contract while creating the account.

- Cost Effectiveness: cheaper than direct shipping from e-commerce site. There is a lower limit for free shipping, which can be avoided through this app.
- Alert System: when you land, app reminds you about the package, where to drop it or carrier or about whoever is going to pick it up.
- Checkpoint: Traveler is going to drop package at specific checkpoint, for carrier to pick up.
- Faster delivery than e-commerce:

- Only qualified passengers can accept the request to carry packages: Every passenger is allowed a certain weight requirement, for free. If he/she has enough room to carry, without going over the limit, they will be able to earn a profit from what they get from doing this task.
- Future Scope: Career Tracking, Expand in other countries, Charitable activity

### 3) Music App

- This application would be the shelter for all the other music playing application where the user will be able to merge up all their playlist from the other music applications under one.
- This application would be helpful to the cross cultured people who like to listen english and their native language songs. No single app provides all language songs.
- So rather than changing apps to listen different songs it's better to have it under one roof.
- Plus this app would have the shazam feature too which would help user to recognise the music and get it in the same app.
- This can be time saving and one can have a disturbance free life where you can keep on doing on your work.
- This would be a computer and mobile application.
- Future scope: Can be first of this kind application with all possible language songs under one roof.