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TRIPARTITE MEMORANDUM OF UNDERSTANDING (MoU)

For

Bolte Chai: Development of Digital Communication tools for Autism and NDD non-verbal children

**THIS TRIPARTITE MoU IS MADE ON THIS 2ND DAY OF JANUARY AND TWO THOUSAND AND TWENTY-TWO/
OF THE CHRISTIAN ERAS AT DHAKA, BANGLADESH,
BY AND BETWEEN**

WHEREAS Neuro-Developmental Disability Protection Trust (hereinafter referred to as "NDDPT" recognized as "First Party") having address Bangla motor, Kazi Nazrul Islam Avenue, Dhaka, Bangladesh. the Government of Bangladesh constituted a Board called the Neuro-Developmental Disability Protection Trustee Board in 2014 after establishing the Trust through the implementation of the 'Neuro-Developmental Disability Protection Trust Act, 2013' to improve the overall quality of life of people with neuro developmental disorders. The Trust is taking various initiatives to improve the living standards of children and persons with neuro-developmental disabilities. The Neuro-Developmental Disability Protection Trust is represented by Dr. M. Anwar Ullah, FCMA, Managing Director in him capacity as Managing Director of the Neuro-Developmental Disability Protection Trust under the Ministry of Social Welfare of the Government of Bangladesh.

WHEREAS Advanced Intelligent Multidisciplinary Systems Lab (hereinafter referred to as "AIMS Lab" recognized as "Second Party"), a research laboratory belongs to Dept. of CSE, United International University (abbreviated as UIU). initiated by Dr. Khondaker Abdullah Al Mamun, Professor, Department of Computer Science and Engineering in December 2014, purposes to foster Computer Science, Bio-medical and Rehabilitation Engineering research and development in Bangladesh as well as to utilize the benefits of information technology for the society especially in the areas medical and rehabilitation engineering. The research lab focuses on theoretical aspects and applications of the areas of machine learning and data mining, natural language processing, intelligent systems, computational intelligence, biomedical engineering, health informatics and embedded systems. This lab is driven by a multidisciplinary team of highly qualified researchers in their respective fields and aiming to maximize possibilities for computer science and Bio-medical Engineering research in Bangladesh. One of the objectives of this lab is to train graduate and undergraduate students and young faculty members to develop their capacity to become a future researcher. In addition, it is also working to establish collaborations between academia and industry as well as to do collaborative research with local and foreign renowned research centers. The vision of its research is to investigate problems and develop innovative technological solutions that could potentially make an impact in society. improve quality of life, and more importantly make a significant contribution in the scientific arena. Members of AIMS Lab are expecting that the research outcome of AIMS lab will significantly create our recognition and research strength at home

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and abroad. AIMS Lab is represented by Dr. Khondaker Abdullah Al Mamun, Director of AIMS lab and Professor, Department of Computer Science and Engineering, United International University, Dhaka.

WHEREAS Tauri Foundation (hereinafter abbreviated as "Tauri" recognized as "Third Party") is one of the leading NGOs working for education, rehabilitation, capacity building through vocational training as well as creating awareness to address Autism and NDD having its registered address at House no 6/9, Block- E, Lalmatia, Dhaka 1207 and represented by its Executive Director, Mr. Ashfaq-UL-Kabir (which expression shall unless repugnant to the context or meaning thereof be deemed to include its successors, administrators, authorized representative, and assigns).

WHEREAS First Party, Second Party and Third Party are collectively called "Parties".

WHEREAS AIMS Lab innovated and developed the "Bolte Chai: Development of Digital Communication tools for Autism and NDD non-verbal children" funded by ICT Division. NDDPT agreed to deploy Bolte Chai at all levels of the country with support for future Research, further development, maintenance and implementation. As part of this project requires Version Upgradation and Maintenance service for Bolte Chai Platform operations, which will be ensured by AIMS Lab. The implementation and service delivery part of the project will be conducted by NDDPT. The Project will be run in accordance with the narrative and financial proposal submitted by AIMS Lab, Tauri and NDDPT and subject to the financed grant contracts for external actions signed between AIMS Lab.

1. Stakeholders of this MoU

This MoU has multiple stakeholders with specific roles and responsibilities. Stakeholders of this MoU are as follows:

- Neuro-Developmental Disability Protection Trust (Implementation & Service Delivery Provider)
- Advanced Intelligent Multidisciplinary Systems Lab (Upgradation and Maintenance service)
- Tauri Foundation (User Acceptance Test)

2. Purpose

AIMS Lab, Tauri and NDDPT agree to collaborate on implementation of 'Bolte Chai' to support nonverbal children for improving communication needs. "Bolte Chai" is a fully customizable AAC application integrated with Picture Exchange Communication System and Information Technology. The purpose of this agreement is to ensure proper implementation and scaling of 'Bolte Chai' and collaboration between all parties to ensure consistent cooperation on Application Upgradation and Maintenance of the system.

3. Objective

The objectives of this Agreement are to:

- Ensure Implement and scale up the Bolte chai Platform Countrywide.
- Support for Bolte chai Upgradation & Maintenance Service.
- Ensure Service Delivery for non-verbal children in all over Bangladesh.

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4. Platform:

Bolte chai platform has been developed and tested. Bolte chai offers a wide range of symbol solutions or text writing with human spoken voicing for the user, or a caregiver or family member to set up for an individual user.

- Application has Child and Parent/ Caregiver mode
- In Parent mode, Parent/ Caregiver will design activity for child. On the other hand, in Child mode, child will use activities to express their need
- Child will be able to use "Help Option" to request for help in case of emergency
- Parent or caregiver can add/delete activities with picture, text and voice
- Customizing "Help" Contacts

5. General Terms and Conditions:

1. AIMS Lab completed the development of the "Bolte Chai" applications.
2. AIMS Lab will be responsible for fixing bugs and defects if there are any.
3. Any meetings called by either AIMS Lab or NDDPT will be through emails with prior notice.
4. AIMS Lab will perform the mobile application with the new / latest version when needed with support from NDDPT. Additional enhancement and new features or additional requirements need funding to complete it.
5. AIMS Lab & NDDPT each will nominate and give responsibility to a focal person(s) to communicate between NDDPT, AIMS Lab & Tauri.
Responsible Person from NDDPT: Director, NDDPT
Responsible Person from AIMS Lab: Lab Coordinator, AIMS lab, UIU
Responsible Person from Tauri: Director, Tauri Foundation
6. All communication and issue sent will be via official email or signed hardcopy. No issues will be taken verbally, by telephone or any other medium unless it requires urgent requirement(s).
7. All the data and information privacy shall be maintained by NDDPT.
8. NDDPT will allow AIMS Lab, Research Institute and donors to visit the respective centres as and when needed.
9. The first version of "Bolte Chai" Apps will be provided to NDDPT without changing any cost as it was funded by a2i. In the case of subsequent version upgradation and service maintenance by AIMS Lab and NDDPT will have to fund as per clause 7 & 8 of this agreement.

6. Ownership

- (a) AIMS Lab, Tauri and NDDPT are Jointly owned the copyright of this 'Bolte chai' Platform.
- (b) NDDPT, AIMS Lab and Tauri jointly remains as the owner and reserve copy right to use the application and its data and any kind of publication.

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- (c) Any permission to be required for application of the tool or others needed activities to be obtained from and by NDDPT

7. Cost/Fee for Service delivery

1. The below cost/fee is agreed by the parties. Cost/Fee has Three components
- 1) According to fiscal year (July- June) per quarter basis Service Fee for Platform and application maintenance and trouble shooting
 - 2) According to fiscal year (July- June) per quarter basis Platform Upgradation
 - 3) NDDPT will arrange the server and maintain cost of it.

Sl. No.	Item	Cost/Fee	Comments
1.	Service Fee for Platform & Application Maintenance and version upgradation (starting from July 1, 2022 – 2023)	BDT 50,000	Per quarter basis Payment

- Price is excluding of applicable VAT and AIT
2. NDDPT will have to pay for any new enhancement, additional features & support.

8. Payment

A. Cost of Platform & Application maintenance and Version Upgradation:

- AIMS Lab will submit the bill for quarterly maintenance and version upgradation to NDDPT, within 10 days from the date of completing each quarter.
- NDDPT will arrange to pay the bill within 15 days from the date of bill submission.

B. Cloud Hosting:

- NDDPT will arrange the server and ensuring maintenance.

9. Contact Persons

- Director of Neuro-Developmental Disability Protection Trust
- Lab Coordinator of Advanced Intelligent Multidisciplinary Systems Lab
- Director, Tauri Foundation

This document is mutually agreed with free consent and willingly and signed by:

On behalf of NDDPT



(Signature)

Name: Dr. Md. Anwar Ullah FCMA
Seal: Managing Director (Joint Secretary)
Neuro-Developmental Disability Protection Trust
Ministry of Social Welfare

Witness: 

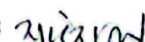
Name: Prof. Salma Begum
Seal: Professor Salma Begum
Director
Neuro-Developmental Disability Protection Trust
Ministry of Social Welfare

On behalf of AIMS Lab



(Signature)

Name: KHONDAKER A. MAMUN
Seal: Dr. Khondaker A. Mamun
Director, AIMS Lab
Professor, Dept. of CSE
United International University

Witness: 

Name: SALEKUL ISLAM
Seal: Salekul Islam, PhD
Professor & Head
Dept. of Computer Sc. & Engg.
United International University

On behalf of Tauri



(Signature)

Name: Ashfaq-UL-Kabir
Seal: Executive Director
Tauri Foundation

Witness: 

Name: Marufa Hossain
Seal: Director (Program & Training)
TAURI FOUNDATION