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| # | Activities | Month in the 2-year project | | | | | | | | | | | | | | | | | | | | | | | | Remarks |
| Q1/Y1 | | | Q2/Y1 | | | Q3/Y1 | | | Q4/Y1 | | | Q1/Y2 | | | Q2/Y2 | | | Q3/Y2 | | | Q4/Y2 | | |
| 1 | i) Design data schema/DB for GOTO data |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Development of data storage and retrieval mechanism (1 M.Sc. with Thai/UK supervisors) |
| ii) Design user-defined queries |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| iii) UK visit to establish GOTO UK PostgreSQL database |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| iii) Establish PostgreSQL mirror database at NARIT |  |  |  |  |  |  |  |  |  |  |  | CX |  |  |  |  |  |  |  |  |  |  |  |  |
| iv) Establish HDFS GOTO database |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | CX |  |  |  |
|  | v) Test and compare HDFS vs. PostgreSQL databases. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | JX |  |
| 2 | i) Assess imbalance classification models with real GOTO data |  |  |  |  |  | C |  |  | JX |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Development of ML models for data classification (2 M.Sc. and 1 Ph.D. with Thai/UK supervisors) |
|  | ii) Pixel based classification modelling |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | C |  |  |  |  |  | J  X |
| 3 | Workshops |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | For NARIT staff & the public |
| 4 | i) Progress meeting via tele-conference |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | With both teams |
| ii) Team meeting |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Anticipated output  C = publication in an international peer-reviewed conference (possibly extended to journal)  J = publication in an international peer-reviewed journal  X = system/software prototype | | | | | | | | | | | | | | | | | | | | | | | | | | |