



INDEPENDENT UNIVERSITY, BANGLADESH

LANKABANGLA FINANCE LIMITED'S ONLINE SERVICES

GROUP 14

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INTRODUCTION

LankaBangla Finance Limited (LBFL) stands as a prominent financial institution that has been at the forefront of providing comprehensive financial services in Bangladesh. Established with a vision to empower individuals and businesses with innovative financial solutions, LBFL has carved a niche for itself in the country's financial landscape. Founded in 1997, LBFL has steadily grown into a diversified financial conglomerate, offering a wide array of services that cater to the diverse needs of its clientele. The company's commitment to excellence, coupled with its customer-centric approach, has propelled it to become a trusted partner for financial services.

METHODOLOGY

There were no ready-made programs or designs used in the making of this project, everything is custom-made based on the little bits of knowledge gathered from here and there including the background drawings.

Rich Picture:<https://app.diagrams.net/>

ERD:Lucidchart

Relational Schema: Lucidchart

Normalization:Lucidchart

Front-end:HTML, CSS, Bootstrap, AdminLTE

Back-end:PHP

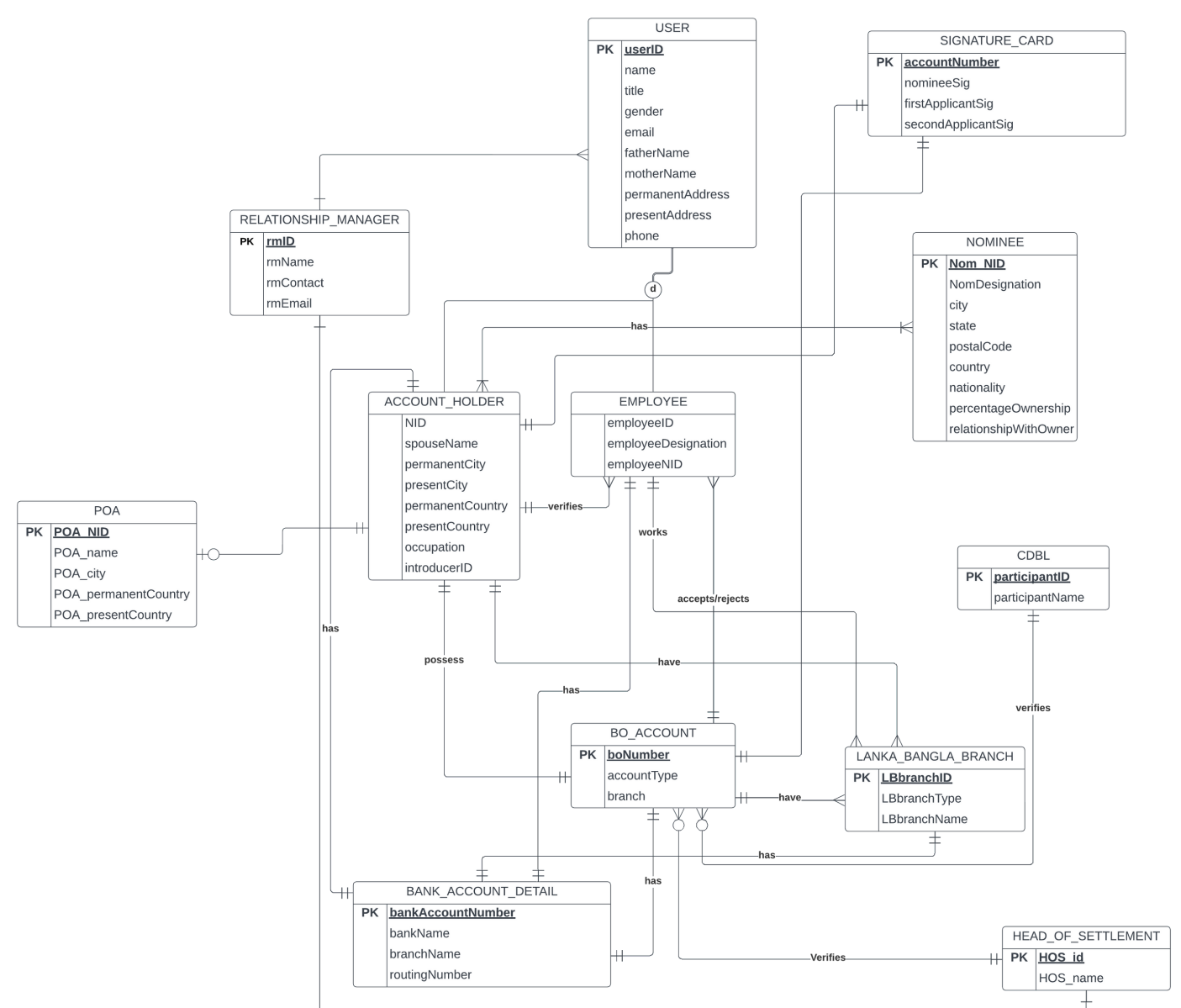
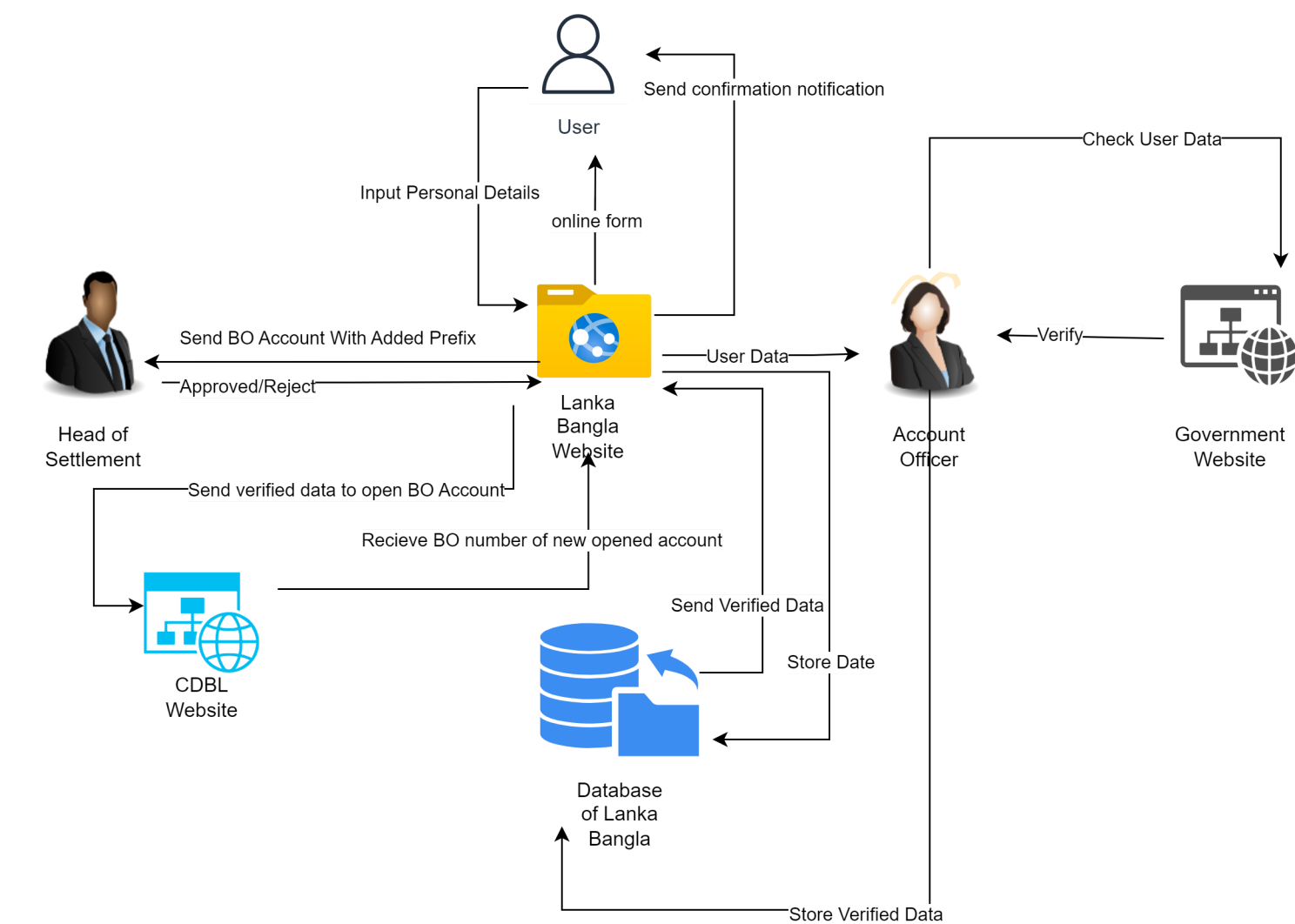
IDE:Visual Studio Code

Framework:Custom

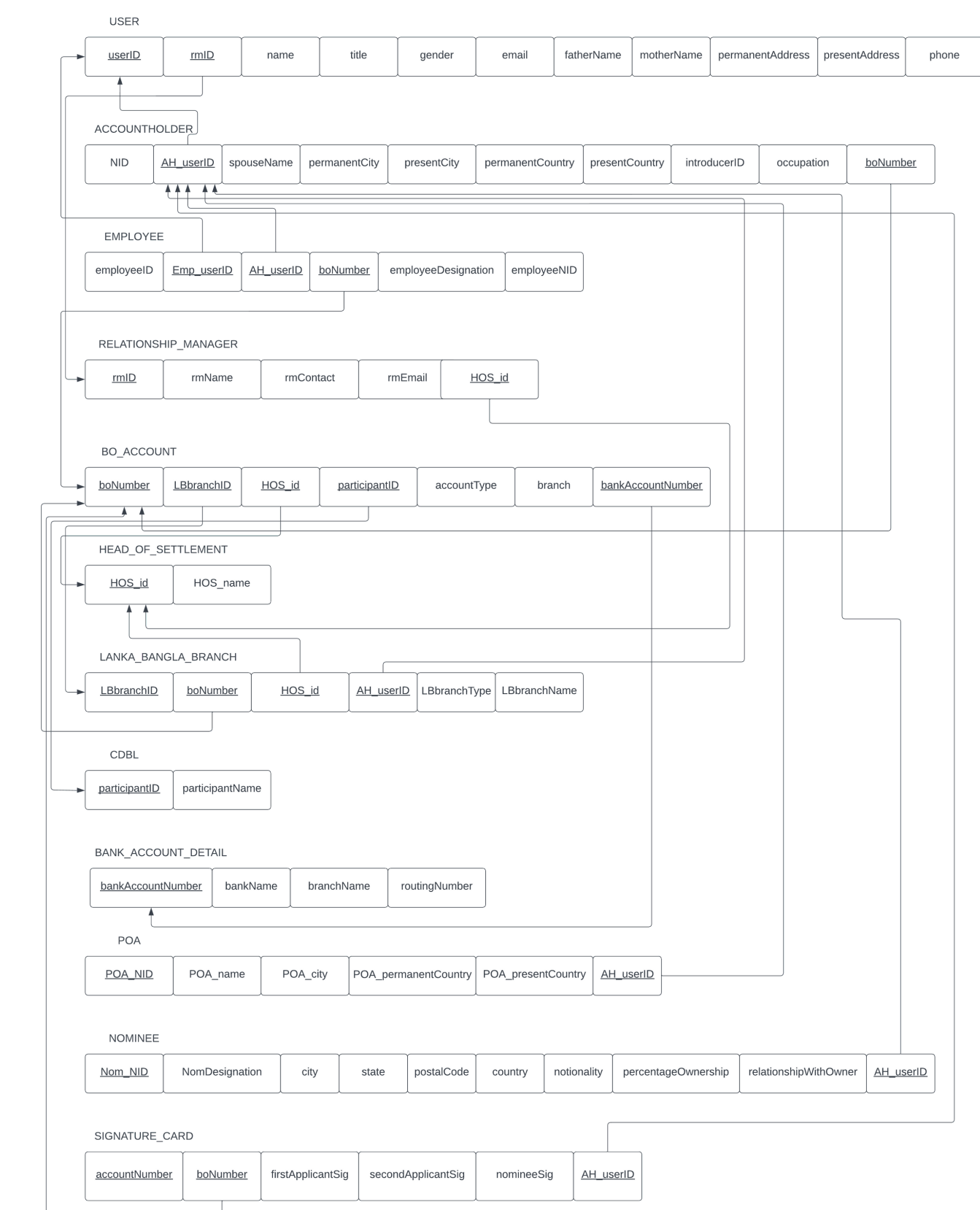
Webhost: Localhost through Apache from XAMPP

Database:MySQL from XAMPP

ERD



RELATIONAL SCHEMA



NORMALIZATION

1NF

| | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|-----------|----|-----|
| T1 | a1 | d1 | a2 | a3 | a4 | a5 | a6 | a7 | a8 | a9 | a10 |
| | c2 | c1 | b2 | e1 | c3 | c4 | b1 | b3 | b4 | b5 | b6 |
| | b7 | b8 | b9 | g1 | f1 | h1 | e2 | e3 | i1 | g2 | g3 |
| | h2 | f2 | i2 | i3 | i4 | j1 | j2 | j3 | j4 | j5 | k1 |
| | k2 | k3 | k4 | k5 | k6 | k7 | k8 | k9 | <u>l1</u> | l2 | l3 |
| | l4 | d2 | d3 | d4 | | | | | | | |
| | | | | | | | | | | | |

2NF

3NF

T11 Is already in 3NF

T121

| | |
|----|----|
| h2 | e1 |
|----|----|

T123

| | | | | |
|----|----|----|----|----|
| c2 | c1 | h2 | c3 | c4 |
|----|----|----|----|----|

| | |
|-----|-------------------|
| T13 | Is already in 3NF |
|-----|-------------------|

| | |
|-----|-------------------|
| T14 | Is already in 3NF |
|-----|-------------------|

| | |
|-----|-------------------|
| T15 | Is already in 3NF |
|-----|-------------------|

| | | |
|------|----|----|
| T161 | 11 | 12 |
|------|----|----|

T162

T163

h1 h2

T165

| | | | |
|----|----|----|----|
| a1 | a2 | i1 | k1 |
| a1 | b1 | i1 | b1 |

BCNF

All relations are in BCNF