**Airport Currency Exchange**

**Test Plan**

**Login page**

* Leave user or password control empty

Expected result: Update button disabled

* Populate user control, set password to any value except “1” and press Login.

Expected result: Incorrect password error message displayed. User stays on the Login page.

* Populate user control, set password to “1” and press Login.

Expected result: User redirected to the Home page with appropriate data populated on it.

**Home page and transactions edit.**

* Click on any button in the Buy grid column.

Expected result: all grid buttons disabled. Edit form for Buy currency is shown with data populated:

Amount to Buy=100, Exchange Rate = value from Buy column on the grid for that currency,

Subtotal = amount \* rate,

Commission = CEIL(MAX(amountUSD \* commissionPct + surcharge, minCommission), 2)

Total = Subtotal - Commission.

* On the Buy edit form click Buy.

Expected result. “Amount to Buy” control became disabled, Back button is visible.

* On the Buy edit form click Buy second time.

Expected result. Edit form disappeared. Grid and header refreshed on the Home page reflecting transaction currency and USD rest cash amount changes.

* On the Buy edit form click Buy first time and then Back button.

Expected result. “Amount to Buy” control became enabled, Back button disappeared.

* Click on any button in the Sell grid column.

Expected result: all grid buttons disabled. Edit form for Sell currency is shown with data populated:

Amount to Sell=100, Exchange Rate = value from Sell column on the grid for that currency,

Subtotal = amount \* rate,

Commission = CEIL(MAX(amountUSD \* commissionPct + surcharge, minCommission), 2)

Total = Subtotal + Commission.

* On the Sell edit form click Sell.

Expected result. “Amount to Sell” control became disabled, Back button is visible.

* On the Sell edit form click Sell second time.

Expected result. Edit form disappeared. Grid and header refreshed on the Home page reflecting transaction currency and USD rest cash amount changes.

* On the Sell edit form click Sell first time and then Back button.

Expected result. “Amount to Sell” control became enabled, Back button disappeared.

* Click on any button in the Amount grid column.

Expected result: all grid buttons disabled. Edit form for Send/Receive currency is shown with data populated:

Currency – from grid row user clicked on,

Amount = 100,

To/from whom – empty.

* On the edit form for Send/Receive click Buy or Sell button.

Expected result: “Person is required” error message is shown.

* On the edit form for Send/Receive set amount=9, set person and click Send or Receive button.

Expected result: “Amount should not be less than 10.” error message is shown.

* On the edit form for Send/Receive set amount above shown in the Amount grid field, set person and click Send button.

Expected result: “Amount should not be greater than <rest amount>.” error message is shown, where <rest amount> - value for that currency in the Amount grid column.

* On the edit form for Send/Receive set amount below shown in the Amount grid field and above 10, set person and click Send button.

Expected result: Send/Receive edit form disappears. Grid and header refreshed on the Home page reflecting transaction currency rest cash amount changes.

**Transactions page**

* Click on Transaction link in the right upper page corner.

Expected result. Transactions grid with vertical scrolling is shown populated with all the data from the database Transactions table. “Currency” and “Transaction Types” dropdown filters set to “All”, both date filters are empty.

* Select some currency in the Currency dropdown.

Expected result. Grid populated with that currency transactions only. Grid footer is shown with totals for the Amount and Commission columns.

* Select some date/time in the “Date from” control.

Expected result. Grid populated with transactions created starting from that date.

* Select some date/time in the “Date to” control.

Expected result. Grid populated with transactions created not later than the selected date.

* Populate both “Date from” and “Date to” controls.

Expected result. Grid populated with transactions created between the selected date period.

* Select “Buy/Sell” value in the “Transaction Types” control

Expected result. Grid populated with “buy” and “sell” transactions only.

**Admin page**

* Click “Admin” link in the right upper page corner.

Expected result. Admin edit page is shown with 5 editable controls populated with respective database settings values and Update button.

* On the Admin page set some value not within allowed diapason.

Expected result. Update button becomes disabled.

* On the Admin page populated all 5 controls with valid values and click Update button.

Expected result. The new settings values saved to the database. “Saved” message is shown right to the Update button.

**Exchange Rates update Service**

* Set “Refresh currency exchange rates” setting to 10 on the Admin page. Click Update.

Expected result. Approximately every 10 seconds buy/sell rates along with RateDate updated in the Rate table and that date automatically refreshed on the page header in the message *“Exchange Rates shown as per <datetime>.”,* where <datetime> is taken from the Rate table.

Set “Refresh currency exchange rates” setting to 10 on the Admin page. Go to the Home page. Click

* Set “Refresh currency exchange rates” setting to 10 on the Admin page. Click Update.

Go to Home page click on any button in the Buy grid column.

Expected result. Form for Buy currency is shown. Rate, Subtotal and Total controls values refresh approximately every 10 seconds.

* Set “Refresh currency exchange rates” setting from some positive value to 0 on the Admin page. Click Update.

Expected result. Update service will no longer update exchange rates.